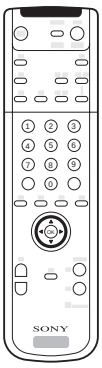
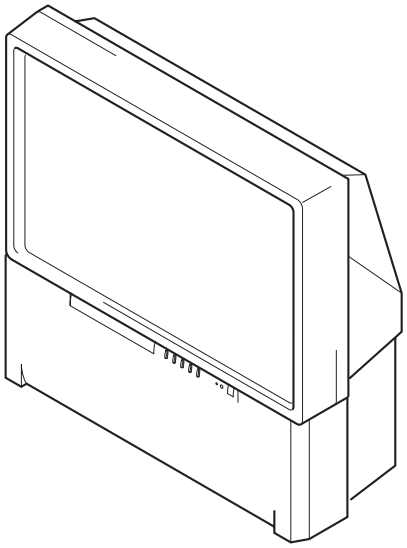
Self Diagnosis Supported model

SERVICE MANUAL RE-2A CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-41PX1	RM-892	AEP	SCC-P66A-A
KP-41PX1K	RM-892	OIRT	SCC-P68A-A
KP-41PX1R	RM-862	Russian	SCC-P67A-A



RM-892



PROJECTION TV

SONY®

SPECIFICATIONS

TV system
B/G/H, D/K, I, L

Colour system
PAL, SECAM
NTSC 3.58, 4.43 (only Video In)

Channel coverage
VHF: E2-E12
UHF: E21-E69
CATV: *S1-S20*
HYPER: S21-S41
D/K: R1-R12, R21-R69
L: F2-F10, B-Q, F21-F69
I: UHF B21-B69

Projected picture size
41 inches
Approx. 130 measured diagonally

Rear Terminals
- ◀C▶ Centre speaker input terminals (2 terminals)
- (L, R) audio outputs (phono jacks)
- 1/ 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
- 2/S 2 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output
- 3 (SMARTLINK) 21-pin Euro connector (CENELEC standard) including audio/video input, selectable audio / video output (selectable the same output source as 2/S 2 connector) and Smartlink interface (41PX1/41PX1R)

Front Terminals
2 video input - phono jack
2 audio inputs - phono jacks
S2 S video input - 4 pin DIN
Headphones jack - minijack stereo

Sound output
2 x 30 W (music power)
2 x 15 W (RMS)

Centre SP input
30 W (RMS) (using as the centre speaker)

Power consumption
145 W

Standby Power consumption
0.7 W

Dimensions (w x h x d)
Approx. 948 x 992 x 511 mm

Weight
Approx. 43 kg

Accessories supplied
1 Remote Control (RM-892) : 41PX1/41PX1K
□□ (RM-862) : 41PX1R
2 Batteries (IEC designated)

Other features
Digital Comb filter (High resolution)
TELETEXT, Fastext, TOPtext
NICAM
Sleep Timer
Smartlink : 41PX1/41PX1K
Dolby Virtual

Design and specifications are subject to change without notice.

CAUTION
SHORT CIRCUIT THE ANODE OF HTE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1
SELF DIAGNOSIS FUNCTION

Diagnostic Errors

The errors indicated below can be read using an Error Reader Display (Part Number S-188-900-10) connected to the service connector. Once an error has been detected it will then be displayed on the two digit error reader.

During the power up procedure and during normal run time, the micro's self diagnostic procedures monitor for various errors, as described in the table below:

Error Number	Error Description
00	No error (TV Error Reader shows 00 in normal condition)
01	Not allowed (may be confused with SIRCS response flash on LED)
02	Protection circuit trip (Any time)
03	Reserved
04	No Vertical Synchronism
05	AKB
06	IIC SCL Low < Power Up Only >
07	IIC SDA Low < Power Up Only >
08	IIC SDA & SCL Low < Power Up Only >
09	Jungle controller no acknowledge < Power Up Only >
10	Video Switch (CXA2040) no acknowledge < Power Up Only >
11	Tuner no acknowledge
12	MSP no acknowledge
13	NVM no acknowledge
14	AV Switch (CXA2089) no acknowledge
15	Digital micro no acknowledge
16	Port Expander (CXA1875) no acknowledge
17	Multiple devices with no acknowledge <Power Up Only>
18	Cannot initialize jungle (after initial power on check OK) - < Chassis Initialization >
19	Jungle controller response failure after power up check (+9V) test
20	Video Switch (CXA2040) cannot power on reset - < Chassis Initialization >
21	Video Switch (CXA2040) response failure after power up check (+9V)
22	NVM acknowledge fail after initialization (STBY +5V)
23	MSP run-time failure < May Not Be Fatal - Display On Error Reader >
24	DSP run-time failure < May Not Be Fatal - Display On Error Reader >
25	M3L bus Clock low time out after data send < Run-Time Failure >
26	M3L bus Clock low time out after data send < At Power Up Check >
27	M3L bus Clock low time out after data send < At Initialization >
28	M3L Txd Low < Power Up Only >
29	M3L Rxd Low < Power Up Only >
30	M3L Enable Low < Power Up Only >
31	Compact Text test fail < Power Up Only >
32	Compact Text does not respond (+5V test)
33	Compact text run-time failure < May Not Be Fatal - Display On Error Reader >

Protection Error (Error 2):

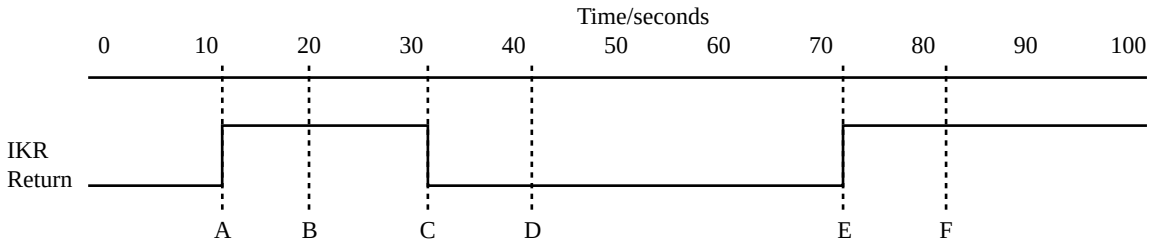
Once every main loop (approximately 200ms OSD mode, 50ms text or menu mode), the micro checks the protection pin (pin 66). If the protection pin is high 6 successive times, a protection error is diagnosed. The protection pin is **not** checked during the first 3-4 seconds after AC on.

If this error is diagnosed, the respective NVM register will be updated and the set goes straight into diagnostic standby with 2 flashes - no reset is attempted.

AKB Error (Error 5):

Once every main loop the micro checks the AKB stability by reading the IKR return from the jungle. IKR=1 means that AKB is stable, IKR=0 means that AKB is unstable. If the AKB status is unstable for 10 seconds, an AKB error is diagnosed. AKB stability is **not** checked during the first 20 seconds after AC on.

*If this error is diagnosed, the respective NVM register will be updated and the response LED will flash 5 times continually, but the set will **not** go into standby. If the AKB status becomes stable, and remains stable for 10 seconds, the LED will stop flashing.*



A. IKR Return first goes high after 12 seconds
B. Micro begins checking IKR Return status 20 seconds after power on
C. Micro detects IKR return=0
D. Micro detects that IKR has been 0 for 10 seconds; NVM counter is incremented and the LED starts flashing (flashes 5 times, off for 2 seconds, flashes 5 times, etc.)
E. Micro detects that IKR=1; LED continues to flash
F. Micro detects that IKR has been high for 10 seconds; LED stops flashing.

Startup Diagnostic Errors (Errors 6-16, 26, 28-31):

These errors are checked for during the power up sequence before attempting to retrieve data from the NVM.

6 - SCL pin low
7 - SDA pin low
8 - Both the SCL and the SDA pin are low
9 - No acknowledge from the jungle (CXA2076)
10 - No acknowledge from the video switch (CXA2040)
11 - No acknowledge from the tuner
12 - No acknowledge from the MSP
13 - No acknowledge from the NVM
14 - No acknowledge from the CXA2089 video switch
16 - No acknowledge from the CXA1875 Port Expander
26 - M3L_TXD pin low after Compact Text RAM test
28 - M3L_TXD pin low
29 - M3L_RXD pin low
30 - M3LEN pin low
31 - Compact Text RAM test fail

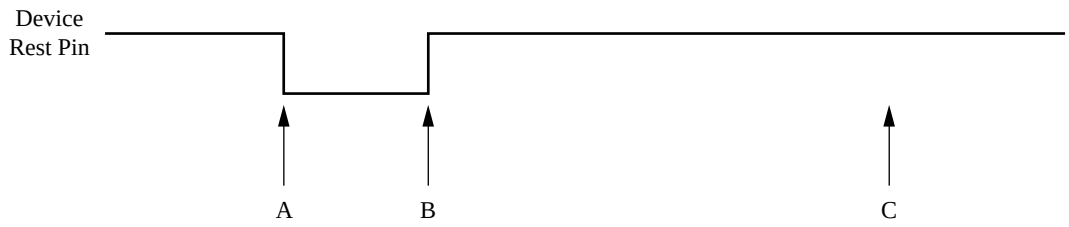
If any of these errors are detected, the respective NVM register will be incremented. The software will then carry on with the power up sequence.

General I²C Device Run-time Errors (Errors 18-22):

18 - No acknowledge from Jungle when attempting to initialize
19 - No acknowledge from Jungle when attempting to read registers
20 - AV Switch cannot complete reset during initialization
21 - No acknowledge from AV Switch when attempting to read registers
22 - No acknowledge from NVM when attempting to read or write
If any of these errors are detected, the respective NVM register will be incremented and the software will carry on.

Compact Text Run-time Errors (Errors 25, 27, 32 & 33):

25 - M3L_TXD pin low when checking register 81 (implies that no communication was possible)
27 - M3L_TXD pin low when attempting to initialize (implies that no communication was possible)
32 - Compact Text RAM test fail during initialization of devices
In the case of these errors, the 'device reset' pin will be held low for 60ms, causing a hardware reset of Compact Text. Following this reset, a longer timeout will be allowed for the M3L bus to recover. If the error still exists, the NVM register will be incremented and the software will carry on.



A. IKR Return first goes high after 12 seconds
B. Micro begins checking IKR Return status 20 seconds after power on
C. Micro detects IKR return=0
D. Micro detects that IKR has been 0 for 10 seconds; NVM counter is incremented and the LED starts flashing (flashes 5 times, off for 2 seconds, flashes 5 times, etc.)
E. Micro detects that IKR=1; LED continues to flash
F. Micro detects that IKR has been high for 10 seconds; LED stops flashing.

33 - Register 81 check fail, but M3L_TXD pin high (implies that Compact Text has either reset or become corrupted).
In this case, the 'device reset' pin will be held low for 60ms, causing a hardware reset of Compact Text. Compact Text will then be re-initialized and the NVM counter updated. This is the same as for errors 26, 28 and 33 except that the M3L bus timeout is not changed. Also, during the reset, Compact Text OSD will be disabled (using pin 59 of the micro). Only when the sync registers have been refreshed twice, will the OSD be enabled.

MSP and DSP Run-time Errors (Errors 23 & 24):

Error 23 can be caused by any of the following:
- After MSP initialization, Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).
- MSP fails to acknowledge reset instruction
- Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).

Error 24 is caused by:
- DSP test byte corrupted (implies that the DSP has either reset or become corrupted).

For both of these errors, the software will refresh the MSP and DSP registers. If the errors still exist, the NVM counter will be incremented, and the software will carry on.

Error Display Mode

Error Display Mode is entered by the following sequence of commands:

Standby → Information → Digit 5 → Volume Down → TV

This mode will display a special menu, which will list all possible errors and the number of occurrences of each error (0 – 255, as stored in the NVM). There will also be a display of the current error (00 if no error). This display mode will appear as follows:

ERROR DISPLAY MODE

Current Error Code = 00

Error Code	Occurrences	Error Code	Occurrences
2	2	18	0
3	—	19	0
4	—	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	4
9	0	25	5
10	0	26	89
11	0	27	3
12	0	28	0
13	0	29	0
14	0	30	0
15	3	31	0
16	0	32	3
17	0	33	38

Whilst in this mode, the number of occurrences of each error can be reset to 0 by TT08.

Only AC off or standby off can exit this mode.

The Current Error Code can also be read by using a TV Error Reader (I2C slave address 42H). This device simply receives 1 data byte, which is the error number in binary coded decimal form.

TT command table

TT Mode is available by pressing the test key twice. It is exited by pressing 0 twice, or by pressing the Test key, or by pressing the TV key or by switching the set into standby.
Pressing the Menu key when in TT mode enters in main Test Menu. Pressing the Menu key again enters in the User Menus.

TT Modes 40-49 require TV to be in program 59 before the command is accepted. Some Test models are dependant upon the model.

Code	Function
<Menu>	Enter into Service Menu
00	Exit from TT mode
01	Set Picture Level to Maximum
02	Set Picture Level to Minimum
03	Set Volume to 35% (41PX1/41PX1K) Set Volume to 30% (41PX1R)
04	Set Volume to 50%
05	Set Volume to 65%
06	Set Volume to 80%
07	Ageing Mode Enable / Disable
08	Shipping Condition
09	Display TV Status (41PX1/41PX1K) Reset Language Select Menu on Power Up (41PX1R)
11	Sub Picture Adjustment (41PX1/41PX1K) Clear & Disable OSD (41PX1R)
12	Sub Colour Adjustment (41PX1/41PX1K) Enable OSD (41PX1R)
13	Sub Brightness Adjustment (41PX1/41PX1K) Scart 16 : 9 Enable / Disable (41PX1R)
14	Text H-Position Adjustment (41PX1/41PX1K) Display TV Status (41PX1R)
15	Picture Reset
17	Headphones Volume by Pressing Arrows (41PX1/41PX1K) Set All AV Labels to Default (41PX1R)
18	Set Volume to 20% (41PX1/41PX1K) RGB Priority Enable / Disable (41PX1R)
19	Factory Mode Toggle (41PX1/41PX1K) Set All Program Labels to Default (41PX1R)
21	Destination A/D (East Menu / West Text) (41PX1/41PX1K) Sub Picture Adjustment (41PX1R)
22	Destination L (West Menu / West Text) (41PX1/41PX1K) Sub Colour Adjustment (41PX1R)
23	Destination E (West Menu / West Text) (41PX1/41PX1K) Sub Brightness Adjustment (41PX1R)
24	Destination U (West Menu / West Text)
25	Destination D (East Menu / Greek Text)
26	Destination AEP (East Menu / West Text / Greek Text) (41PX1/41PX1K) Destination B (East Menu / West Text) (41PX1R)
27	Destination K (East Menu / East Text)
28	Destination R (Russian Menu / Russian Text) (41PX1/41PX1K) Destination L (West Menu / West Text) (41PX1R)

Code	Function
29	No Function (41PX1/41PX1K) Destination E (West Menu / West Text) (41PX1R)
31	Toggle Auto Shutoff Disable (41PX1/41PX1K) Destination A (East Menu / West Text) (41PX1R)
32	Toggle Bit Error Rate Display (41PX1/41PX1K) Destination R (Russian Menu / Russian Text) (41PX1R)
33	Toggle Terminal Debug Mode (41PX1/41PX1K) Sub Woofer Enable (41PX1R)
34	No Function (41PX1/41PX1K) Sub Woofer Disable (41PX1R)
35	No Function (41PX1/41PX1K) Setup Trap Switch (41PX1R)
36	No Function (41PX1/41PX1K) Rotation Test (41PX1R)
37	No Function (41PX1/41PX1K) 25" Set (41PX1R)
38	No Function (41PX1/41PX1K) 25" Reset (41PX1R)
39	Reserved for Dealer Commander (41PX1/41PX1K) No Function (41PX1R)
41	Re-initialize NVM
42	Re-initialize Geometry Settings (41PX1/41PX1K) Default Program Info in NVM with Pencoed Factory Channel Cetup (41PX1R)
43	Default Program Info in NVM with Pencoed Factory Channel Setup (41PX1/41PX1K) Default Geometry Settings (41PX1R)
44	Default Favourite Pages to 100, 101, 102, 103
45	Switch Off All Channel Locks
46	Reserved for Dealer Commander
47	Default MSP Settings
48	Set NVM as Non-virgin (41PX1/41PX1K) Restore NVM Test Byte Undo TT49 (41PX1R)
49	Set NVM as Virgin (41PX1/41PX1K) Delete NVM Test Byte Sets Virgin NVM (41PX1R)
51	No Function (41PX1/41PX1K) Text Interlace Odd (non interlace mode = 3) (41PX1R)
52	No Function (41PX1/41PX1K) Text Interlace Even (non interlace mode = 2) (41PX1R)
53	No Function (41PX1/41PX1K) Auto Picture ON (41PX1R)

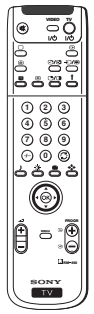
Code	Function
54	No Function (41PX1/41PX1K) Auto Picture OFF (41PX1R)
55	No Function (41PX1/41PX1K) Auto Cut Off Enable (41PX1R)
56	Set Colour to Minimum and Picture to Maximum (41PX1/41PX1K) Auto Cut Off Disable (41PX1R)
57	Set Colour & Picture to Minimum and Adjust Sub Brightness (41PX1/41PX1K) AV3 Enable (41PX1R)
58	Set Picture Level to 50% (41PX1/41PX1K) AV3 Disable (if TV Text) otherwise AV3 Enable (41PX1R)
59	No Function (41PX1/41PX1K) Auto IF Display (41PX1R)
61	N Board Reset (41PX1/41PX1K) Dolby Pro-logic ON (41PX1R)
62	Toggle the 3.3 V Regulator on A2 Board (41PX1/41PX1K) Noise Left (41PX1R)
63	Toggle Attenuation Switch on Port Expander (41PX1/41PX1K) Noise Right (41PX1R)
64	Smart Link Test - Toggle the Smart Link Pin 50 Times (41PX1/41PX1K) Noise Centre (41PX1R)
65	Active Standby Setup (41PX1/41PX1K) Noise Surround (41PX1R)
66	Restart Digicon (41PX1/41PX1K) DSP Bypass (41PX1R)
67	Save Geometry (41PX1/41PX1K) No Function (41PX1R)
68	Pre-set AV Labels (41PX1/41PX1K) Diagnostics OFF (41PX1R)
69	Toggle Partial Digital Off-flag (41PX1/41PX1K) Diagnostics ON (41PX1R)
71	Select Compact Text / Compact Text-2 (41PX1/41PX1K) LumiSponder Curve 1 (41PX1R)
72	Balance Left / Right (◄ : Left, ► : Right, ▲ : Center) (41PX1/41PX1K) LumiSponder Curve 2 (41PX1R)
73	Dual Sound Headphones (▲ : A, ▼ : B) (41PX1/41PX1K) Jungle Select (CXA2000 or CXA2076) (41PX1R)
74	Dual Sound Speakers (▲ : A, ▼ : B) (41PX1/41PX1K) Text H-Position Adjustment (41PX1R)
75	Switch Main Speakers / Center (41PX1/41PX1K) Picture Reset (41PX1R)
76	Dolby Enable / Disable Toggle (41PX1/41PX1K) MSP BG Filter Enabled (41PX1R)
77	Setup Trap Switch (41PX1/41PX1K) Sound Reset (41PX1R)

Code	Function
78	Set Screen Size (41PX1/41PX1K) MSP BG Filter Disabled (41PX1R)
79	Wide Setup
81	Velocity Modulation ON
82	Velocity Modulation OFF
83	Special Picture Mode (41PX1/41PX1K) Picture Rise Step 40ms (41PX1R)
84	Text Interlace Odd (non interlace mode=3) (41PX1/41PX1K) Picture Rise Step 80ms (41PX1R)
85	Text Interlace Even (non interlace mode=2) (41PX1/41PX1K) Picture Rise Step 160ms (41PX1R)
86	Auto Cut Off Enable (41PX1/41PX1K) Picture Rise OFF (41PX1R)
87	Auto Cut Off Disable (41PX1/41PX1K) Select Shop Mode (41PX1R)
88	Diagnostics OFF (41PX1/41PX1K) Compact Text Acquisition Disable (41PX1R)
89	Diagnostics ON (41PX1/41PX1K) Compact Text Acquisition Eable (41PX1R)
91	Clear & Disable OSD (41PX1/41PX1K) Sound Center Mode NORMAL (41PX1R)
92	Eable OSD (41PX1/41PX1K) Sound Center Mode WIDE (41PX1R)
93	D / K Nicam Eable (41PX1/41PX1K) Sound Center Mode PHANTOM (41PX1R)
94	D / K Nicam Disable (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 0 (41PX1R)
95	Reset Language Select Menu on Power Up (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 1 (41PX1R)
96	Set All Program Labels to Default (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 2 (41PX1R)
97	Toggle MHEG Mode (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 3 (41PX1R)
98	No Function (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 4 (41PX1R)
99	No Function (41PX1/41PX1K) Set Test Menu (41PX1R)

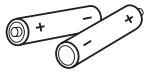
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

SECTION 2
GENERAL

Checking the Accessories Supplied

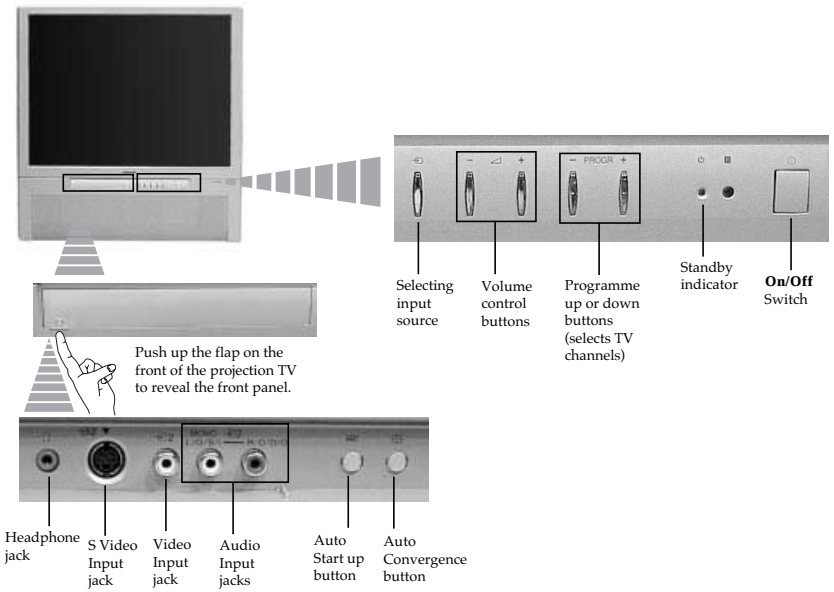


One Remote Control (RM-892)

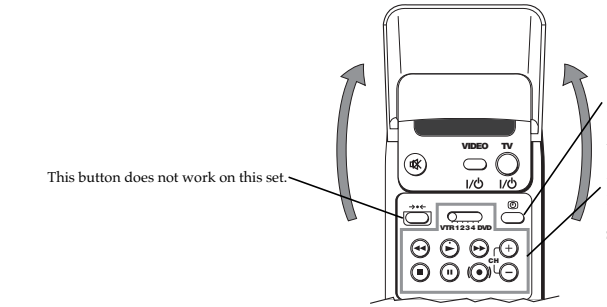


Two batteries (R6 type)

Overview of Projection TV Buttons



Overview of Remote Control Buttons



This button does not work on this set.

Displaying the time
Press to switch the time on or off (available only when teletext is broadcast).

VCR operation
For more details, please refer to the section "Remote Control of other Sony Equipment".

Muting the Sound
Press to mute TV sound.
Press again to restore the sound.

VCR on/off
Press to switch your VCR on or off.

Selecting TV mode
Press to switch off Teletext or video input.

Selecting Teletext
Press to switch on Teletext.

These buttons do not work on this set.

Selecting channels
Press to select channels.

For double-digit programme numbers, e.g. 23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, this should be corrected by entering another digit (0-9) and then selecting -/-- button again to enter the programme number of your choice.

Selecting Sound mode
Press repeatedly to change the sound mode.

Selecting Picture mode
Press repeatedly to change the picture mode.

Adjusting TV Volume
Press to adjust the volume of the TV.

To Temporarily Switch Off projection TV
Press to temporarily switch off TV (the standby indicator ⏻ on the set lights up in red). Press again to switch on TV from standby mode.
To save energy we recommend switching off completely when TV is not in use.
⚠ After 15-30 minutes without a signal and without any button being pressed, the set switches automatically into standby mode.

Displaying On Screen Information
Press to display all on-screen indications. Press again to cancel.

Selecting Input source
Press repeatedly until the desired input symbol of the source appears on the screen.

Back to the channel last watched
Press to watch the last channel selected (watched for at least 5 seconds).

Selecting Screen format
Press repeatedly to change the format of the screen (for more details, please refer to the section "Changing the Screen format").

This button only works in Teletext mode.
Function ⏭ associated to this button does not work with this set.

Joystick for menu selection
▲ Scroll Up
▼ Scroll Down
◄ Previous menu or selection
► Next menu or selection
OK Confirms your selection

Selecting channels
Press to select the next or previous channel.

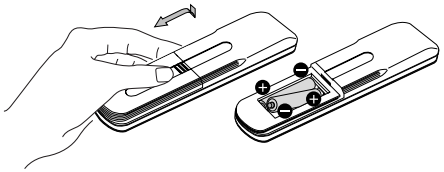
Displaying the menu system
Press to display the menu on the screen. Press again to remove the menu display from the screen.

ⓘ Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

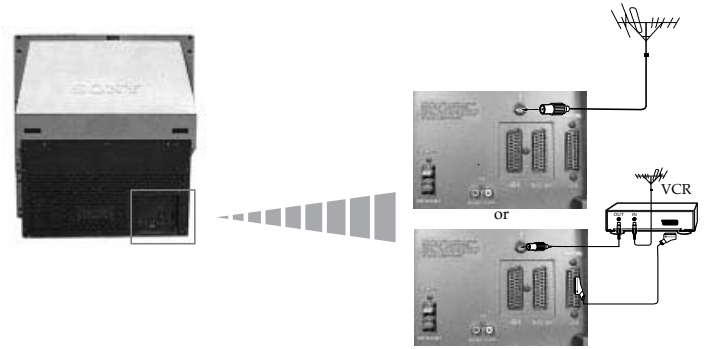
GB

Inserting Batteries into the Remote Control

⚠ Make sure you insert the batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.



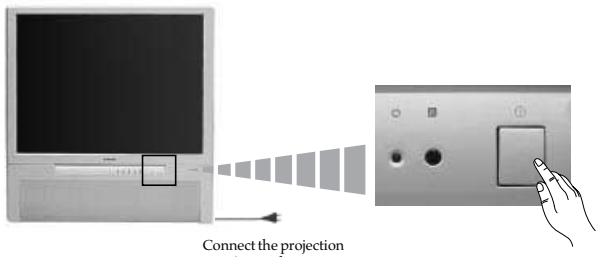
Connecting the Aerial and VCR



ⓘ The Scart lead is optional.
If you use this optional connection it can improve picture and sound quality when using a VCR.

⚠ If you do not use a SCART lead, after automatically tuning the projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to the tune in the set to the ouput of you VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Switching on the projection TV



Push in the ⏻ On/Off switch on the front of the projection TV.

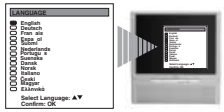
Connect the projection TV plug to the mains socket (220-240V AC, 50Hz).

Selecting Language

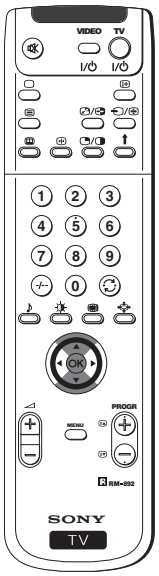
ⓘ Use this function to change the language of the menu screens.
The first time that you switch on your projection TV, the Language menu appears automatically. However, if you need to change the language menu afterwards, select the menu Language in the 🧰 (PRESET) menu and proceed in the same way as described below.



1 Press the ⏻ **on/off** button on your projection TV set to switch on your TV. The first time you press the on/off button on your TV set, the language menu displays automatically on the TV screen.



GB

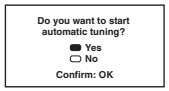


2 Push the joystick on the remote control ▼ or ▲ to select the language, then press **OK** to confirm your selection.

ⓘ If you select "French" language, the "Auto Tuning" process will start searching TV channels on "L" TV system (for France) and later B/G.



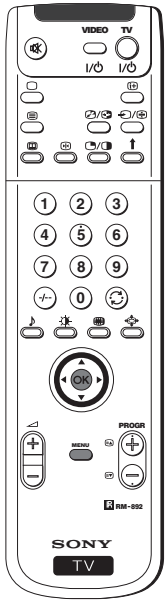
The Auto Tuning menu appears on the projection TV screen in the selected language.



»»»

Automatically Tuning the TV using the Remote Control

You need to tune the set to receive channels (TV Broadcast). By following the instructions below, this projection TV automatically searches and stores all available channels for you.
After having selected the language, a new menu appears automatically on the projection TV screen asking you to automatically tune the TV. However, if you need to change or repeat the tuning afterwards (e.g. when you move house), select the menu Auto Programme in the (PRESET) menu and proceed in the same way as described below or, please refer to the section "Automatically Tuning the TV" of this instruction manual.



1 Press the **OK** button on the remote control to select **YES**. A new menu appears automatically on the screen asking you to check that the antenna is connected.

Do you want to start automatic tuning?
Yes
No
Confirm: OK

2 Confirm that the antenna is connected and then press the **OK** button.

Please confirm that antenna is connected
Confirm: OK

The automatic tuning starts and the message "AUTO PROGRAMME" flashes on the screen.

This procedure could take some minutes. Please, be patient and do not press any button, otherwise the automatic tuning will not be completed.

AUTO PROGRAMME

PROG	SYS	CH	LABEL
1	B/G	C 26	-----

AUTO PROGRAMME

When the automatic tuning is finished, the Programme Sorting menu appears on the screen.

PROGRAMME SORTING

	PROG	SYS	CHAN	LABEL
●	0	B/G	C 28	BBC-W
○	1	B/G	C 40	MV-CH
○	2	B/G	C 41	TVE-1
○	3	B/G	C 31	TVE-2
○	4	B/G	C 34	ANT-3
○	5	B/G	C 27	TELE 5
○	6	B/G	C 47	C PLUS
○	7	B/G	C 44	-----
○	8	B/G	C 23	-----
○	9	B/G	C 35	CNN -

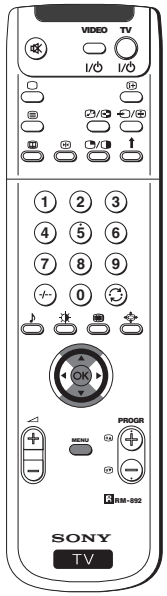
Select PROG: ▲▼ + OK
Exit: MENU

Notes:
- To stop the automatic tuning, press the MENU button.
- If you stop the automatic tuning by pressing the MENU button, the Programme Sorting menu does not appear automatically on the screen.

»»

Changing the Programme Order of the TV channels

After all available channels (TV Broadcast) are captioned and stored, a new menu appears automatically on the screen to change the order in which the channels appear on the screen.
However, if you wish to rearrange the order of the channels afterwards, select the menu Programme Sorting in the (PRESET) menu and proceed in the same way as described in the b) section of this chapter.



a) If you do not wish to change the channel order:

1 Press the **MENU** button on the remote control to exit and return to the normal TV screen.

PROGRAMME SORTING

	PROG	SYS	CHAN	LABEL
●	0	B/G	C 28	BBC-W
○	1	B/G	C 40	MV-CH
○	2	B/G	C 41	TVE-1
○	3	B/G	C 31	TVE-2
○	4	B/G	C 34	ANT-3
○	5	B/G	C 27	TELE 5
○	6	B/G	C 47	C PLUS
○	7	B/G	C 44	-----
○	8	B/G	C 23	-----
○	9	B/G	C 35	CNN -

Select PROG: ▲▼ + OK
Exit: MENU

When the automatic tuning is finished, the Programme Sorting menu appears on the screen.

GB

b) If you wish to change the channel order:

1 Push the joystick on the remote control to ▼ or ▲ to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press **OK**.

PROGRAMME SORTING

	PROG	SYS	CHAN	LABEL
●	0	B/G	C 28	BBC-W
○	1	B/G	C 40	MV-CH
○	2	B/G	C 41	TVE-1
○	3	B/G	C 31	TVE-2
○	4	B/G	C 34	ANT-3
○	5	B/G	C 27	TELE 5
○	6	B/G	C 47	C PLUS
○	7	B/G	C 44	-----
○	8	B/G	C 23	-----
○	9	B/G	C 35	CNN -

Select PROG: ▲▼ + OK
Exit: MENU

2 Push the joystick to ▼ or ▲ to select the new programme number position for your selected channel (TV Broadcast), then press **OK**.

The selected channel now moves to its new programme position and the other channels move accordingly.

PROGRAMME SORTING

	PROG	SYS	CHAN	LABEL
○	0	B/G	C 40	MV-CH
○	1	B/G	C 41	TVE-1
○	2	B/G	C 31	TVE-2
○	3	B/G	C 34	ANT-3
○	4	B/G	C 27	TELE 5
○	5	B/G	C 47	C PLUS
○	6	B/G	C 44	-----
○	7	B/G	C 23	-----
○	8	B/G	C 35	CNN -
●	9	B/G	C 28	BBC-W

Select Position: ▲▼
Confirm: OK

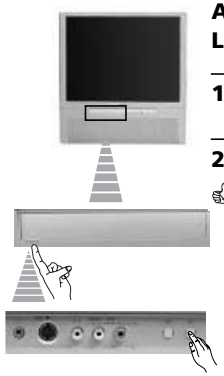
3 Repeat steps 1 and 2 if you wish to change the order of the other channels.

4 Press the MENU button to exit and return to the normal TV screen.

Your projection TV is now ready for use.

Adjusting Colour Registration (Convergence)

Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows:

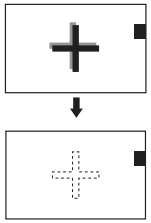


Auto converge the Red, Green, and Blue Lines

1 Push up the flap on the front of the projection TV to reveal the front control panel.

2 Press ⊕ button on the projection TV.

The Auto Convergence function works for about 30 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

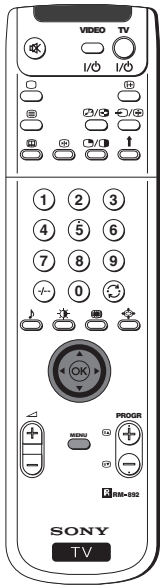


Notes:

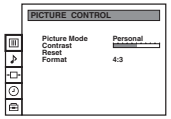
The Auto Convergence function does not work:

- when no signal is input.
- when the input signal is weak.
- when the screen is exposed to spotlights or direct sunlight.
- when you watch the teletext broadcast.

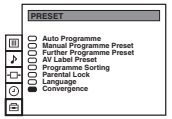
If you wish a more accurate convergence adjustment



1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▼ to select the symbol 🧰, then push to ► to enter to the **PRESET** menu.

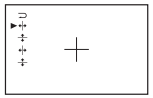


3 Push the joystick to ▼ or ▲ or 4 to select Convergence, then push to ►.

4 Push the joystick to ▼ or ▲ to select "the line" (vertical and horizontal lines in red and blue) you want to adjust.

- ⇹ : red vertical line (left/right adjustment)
- ↕ : red horizonta line (up/down adjustment)
- ⇹ : blue vertical line (left/right adjustment)
- ↕ : blue horizontal line (up/down adjustment)

Then press the **OK** button.



5 Push the joystick repeatedly to ▼, ▲, ◄ or ► to converge the selected line with the green line in the centre, then press **OK** to confirm.

6 Repeat steps 4 and 5 to adjust the other lines, until all the lines have overlapped to form a white cross.

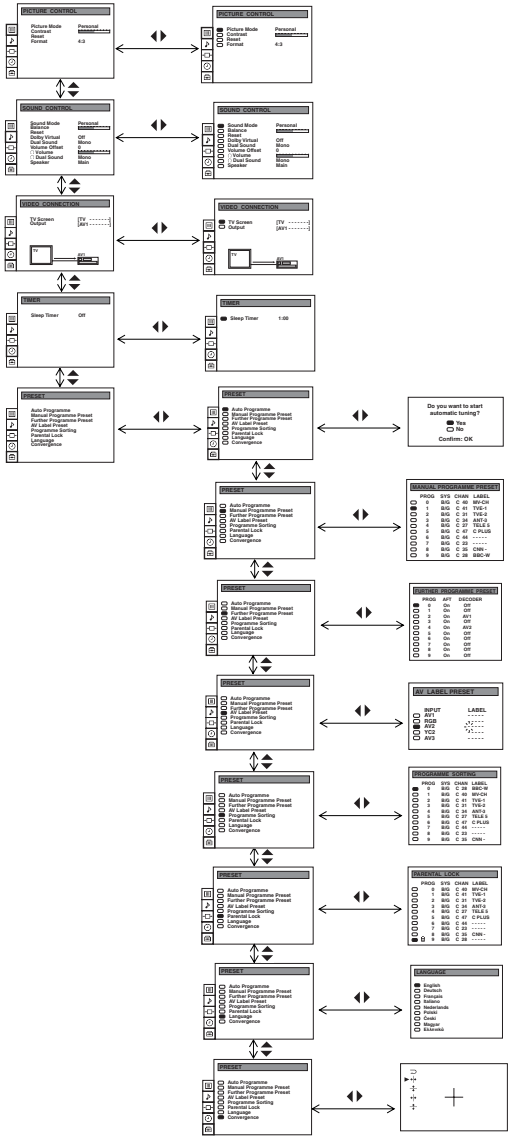
7 Press the **MENU** button to exit and return to the normal TV screen. Your projection TV is ready for use.

Your projection TV is ready for use.

Adjusting Colour Registration (Convergence)

MENU

Press the MENU button on the remote control to display the menu on the screen.



(For different adjustments, please refer to the section "Adjusting the Picture")

(For different adjustments, please refer to the section "Adjusting the Sound")

(For more details, please refer to the section "Selecting the output source for the Euro AV connectors")

(For more details, please refer to the section "Using the Sleep Timer")

(For more details, please refer to the section "Automatically Tuning the TV using the Remote Control")

(For more details, please refer to the section "Manually Tuning the TV")

(For more details, please refer to the section "Using the Further Programme Preset function")

(For more details, please refer to the section "Using the AV Label Preset function")

(For more details, please refer to the section "Changing the Programme Order of the TV channels")

(For more details, please refer to the section "Locking Programmes")

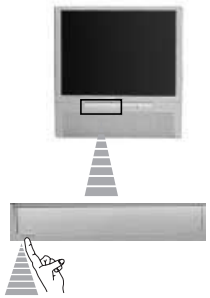
(For more details, please refer to the section "Selecting Language")

(For more details, please refer to the section "Adjusting Colour Registration Convergence)"

GB

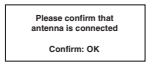
Automatically Tuning the TV

Besides the explanation in the section "Automatically Tuning the TV using the Remote Control", by following the instructions below, this projection TV also searches and stores automatically all available channels using just one button of the projection TV set and one button of the remote control.

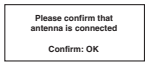


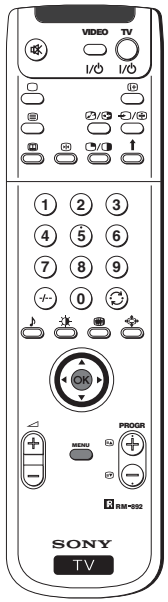
1 Push up the flap on the front of the projection TV to reveal the front control panel.

2 Press and hold in the ⏭ button on the TV set for some seconds, until a menu appears automatically on the screen asking you to check that antenna is connected.

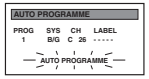


3 Confirm that the antenna is connected and then press the **OK** button on the remote control.





The automatic tuning starts and the message "AUTO PROGRAMME" flashes on the screen.



⚠ This procedure could take some minutes. Please, be patient and do not press any button, otherwise the automatic tuning will not be completed.

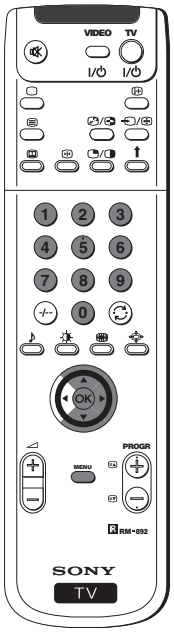
When the automatic tuning procedure is complete, the Programme Sorting menu appears on the screen:

- *If you do not wish to change the channel order, press the **MENU** button on the remote control to exit and return to the normal TV screen.*
- *If you wish to change the channel order, proceed in the same way as described in the chapter "Changing the Programme Order of the TV channels", section b).*

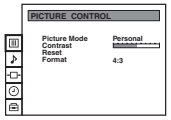
Note: To stop the automatic tuning, press the **MENU** button on the remote control.

Manually Tuning the TV

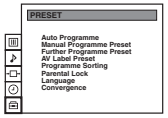
Use this function to preset channels or a video input source one by one to the programme order of your choice.



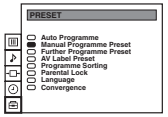
1 Press the **MENU** button on the remote control to display the menu on the screen.



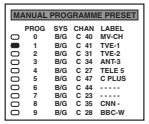
2 Push the joystick to ▼ to select the 🧰 symbol, then push to ► to enter to the **PRESET** menu.



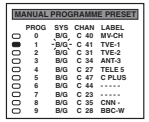
3 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ► .



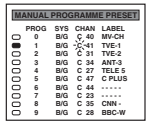
4 Push the joystick to ▼ or ▲ to select on which programme number you want to preset a channel, then push to ►.



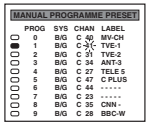
5 Push the joystick to ▼ or ▲ to select the TV Broadcast system (B/G for western european countries, D/K for eastern european countries, L for France or I for United Kingdom) or a video input source (AV1, AV2...), then push to ►.



6 Push the joystick to ▼ or ▲ to select the channel tuning, "C" for terrestrial channels or "S" for cable channels, then push to ►.



7 Press the number buttons to enter the channel number of the TV Broadcast or push the joystick to ▲ or ▼ to search for the next available channel.
If you do not wish to store this channel, push the joystick to ▲ or ▼ to continue searching for the desired channel.



8 If this is the desired channel you wish to store, press the **OK** button.

9 Repeat steps 4 to 8 if you wish to store more channels.

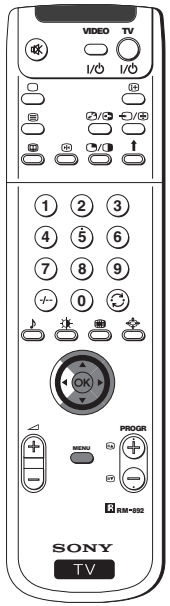
10 Press the **MENU** button to exit and return to the normal TV screen.

Your projection TV is now ready for use.

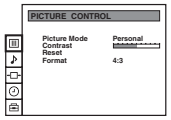
GB

Using the "Further Programme Preset" function

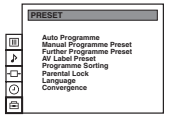
With this feature you can:
a) Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted or
b) preset the AV3 output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



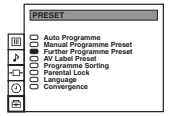
1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▼ to select the 🧰 symbol, then push to ► to enter to the **PRESET** menu.



3 Push the joystick to ▼ or ▲ to select **Further Programme Preset**, then push to ► .

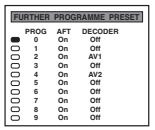


4 Push the joystick to ▼ or ▲ to select the relevant programme number, then push to ► repeatedly to select:

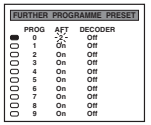
a) **AFT** or

b) **DECODER**.

The selected item changes colour.

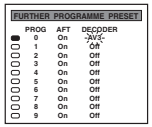


5 a) **AFT**
Push the joystick to ▼ or ▲ to fine tune the channel frequency over a range of -15 to +15, then press the **OK** button.
Repeat steps 4 and 5a) if you wish to fine tune other channels.



b) **DECODER**
Push the joystick to ▼ or ▲ to select **AV3** and press the **OK**.

The picture from the decoder connected to the Euro AV ⇨3 on the back of the projection TV will appear on this programme number.
Repeat steps 4 and 5b) to preset the AV3 output for other programme positions.



6 Press the **MENU** button to exit and return to the normal TV screen.

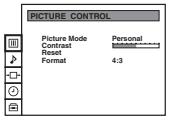
Your projection TV is now ready for use.

Locking Programmes

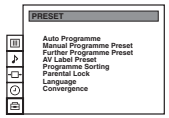
This feature enables you to prevent undesirable broadcasts appearing on the screen. We suggest you use this function to prevent children from watching programmes you consider unsuitable.



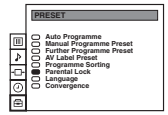
1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▼ to select the 🧰 symbol, then push to ► to enter to the **PRESET** menu.

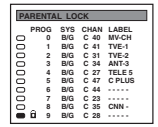


3 Push the joystick to ▼ or ▲ to select **Parental Lock**, then push to ► .



4 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to block, then press the **OK** button.

The 🔒 symbol appears before the programme position to indicate this programme is now blocked.
To unblock the programme, press the OK button again. The 🔒 symbol disappears.



5 Repeat step 4 if you wish to block other channels.

6 Press the **MENU** button to exit and return to the normal TV screen.

When you select a blocked programme the screen appears in black, with 🔒 symbol.

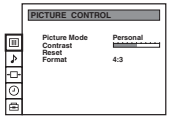
GB

Skipping Programme positions

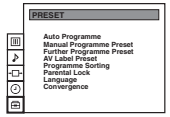
You can programme this projection TV to skip any unwanted programme numbers when they are selected with the PROGR +/- buttons. To cancel this function afterwards, proceed in the same way as described below by selecting the appropriate TV system (B/G, D/K, L or I) instead of "- - -" in step 5.



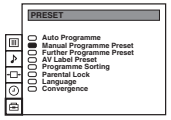
1 Press the **MENU** button on the remote control to display the menu on the screen.



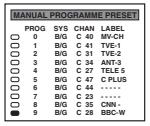
2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the **PRESET** menu.



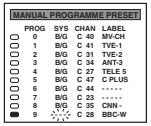
3 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ► .



4 Push the joystick to ▼ or ▲ to select the programme position you want to skip, then push to ► to enter to the **SYS** column.



5 Push the joystick to ▼ to select "- - -", then press the **OK** button to store.



6 Repeat steps 4 and 5 to skip other unused programme positions.

7 Press the **MENU** button to exit and return to the normal TV screen.

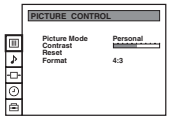
*When changing channels (TV Broadcasts) with the **PROGR +/-** buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.*

Labelling a channel

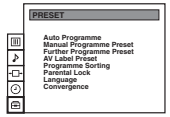
Names for channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



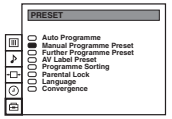
1 Press the **MENU** button on the remote control to display the menu on the screen.



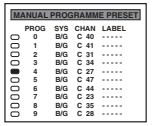
2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the **PRESET** menu.



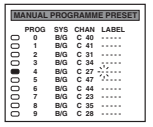
3 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ►.



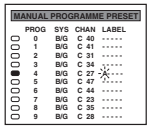
4 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to name.



5 Push the joystick to ► repeatedly until the first element of the **LABEL** column is highlighted.



6 Push the joystick to ▼ or ▲ to select a letter or number (select "-" for a blank), then push to ► to confirm this character. Select the other four characters in the same way.



7 After selecting all the characters, press the **OK** button.

8 Repeat steps 4 to 7 if you wish to label other channels.

9 Press the **MENU** button to exit and return to the normal TV screen.

When you select a named channel, the name appears for a few seconds on the screen.

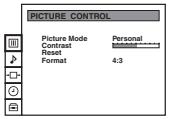
GB

Adjusting the Picture

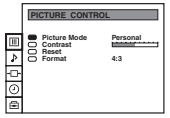
Although the picture is adjusted at the factory, you can modify it to suit your own taste.



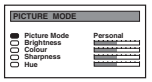
1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick ▶ to enter the **PICTURE CONTROL** menu.



3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ▶.
Refer to the table below to chose the item and for the effect of each control:



Picture Mode ▶ **Picture Mode** ▶	Personal (for individual settings)	
	▶ Movie (for films)	
	▶ Live (for live broadcast programmes)	
▼ **Brightness***	◀ Darker	▶ Brighter
▼ **Colour***	◀ Less	▶ More
▼ **Sharpness***	◀ Softer	▶ Sharper
▼ **Hue****	◀ Greenish	▶ Reddish
Contrast	◀ Less ▶ More	
Reset	⊛ Resets picture to the factory preset levels.	
Format	(for detalis refer to the section "Changing the Screen Mode")	

* Can only be altered if Personal Picture Mode is selected.
** Only avalaible for NTSC colour signal (e.g: USA video tapes).

4 Push the joystick to ◀ or ▶ to alter the selected item, then press the **OK** button to store the new adjustment.

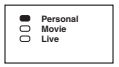
5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

Changing the Picture Mode Quickly

You can quickly change the Picture Mode without entering the Picture Control menu screen.

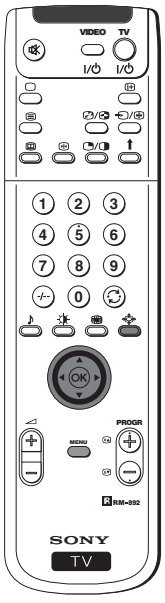
1 Press the ✲ button on the remote control to directly access the Picture Mode.



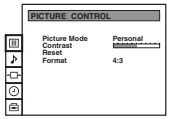
2 Push the joystick to ▼ or ▲ to select your desired picture mode (**Personal, Movie** or **Live**), then press the **OK** button to remove the display from the screen.

Changing the screen mode

Using this Screen Mode feature you can change the aspect ratio of the screen.

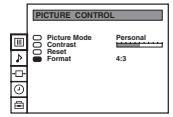


1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▶ button to enter the **PICTURE CONTROL** menu.

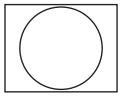
3 Push the joystick to ▼ to select **Format**.



4 Push the joystick to ▶ repeatedly to select:

- **4:3:** conventional 4:3 picture.
- **16:9:** for 16:9 broadcasts.

Press rhe **OK** button.


4:3


16:9

5 Press the **MENU** button to exit and return to the normal TV screen.

Changing the Picture Mode Quickly

You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the ✲ button on the remote control repeatedly to select your desired format screen mode (**4:3** or **16:9**).

GB

Adjusting the Sound

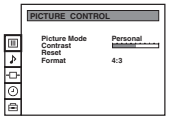
Although the sound is adjusted at the factory, you can modify it to suit your own taste.

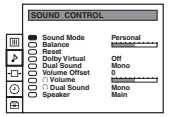


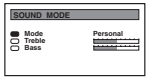
1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the ♪ symbol, then push to ► to enter to the **SOUND CONTROL** menu.

3 Push the joystick ▼ or ▲ to select the item you wish to change, then push to ►.
Refer to the table below to chose the item and for the effect of each control.







Sound Mode	► **Mode**	► Personal (for individual settings) ► Rock ► Jazz ► Pop
	▼ **Treble***	◄ Less ► More
	▼ **Bass***	◄ Less ► More
Balance		◄ Left ► Right
Reset		OK Resets sound to the factory preset levels.
Dolby ** **Virtual**		► **Off:** Normal ► **On:** Simulates the sound effect of Dolby Pro Logic surround.
Dual Sound		• For a stereo broadcast: ► Mono ► Stereo • For a bilingual broadcast: ► Mono (for mono channel if available) ► A (for channel 1) ► B (for channel 2)
Volume Offset		◄ -12 ..... ► +12 The channel volume level can be adjusted over a range of -12 to +12.
Headphones: **Volume**		◄ Less ► More
Dual Sound		• For a stereo broadcast: ► Mono ► Stereo • For a bilingual broadcast: ► Mono (for mono channel if available) ► A (for channel 1) ► B (for channel 2)
Speaker		► **Main:** sound from projection TV set ► **Centre in:** sound from external amplifier

* Can be only altered if "Personal" mode is selected.



4 Push the joystick ◄ or ► to alter the selected item, then press the **OK** button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

** This TV has been designed to create "Dolby Surround" sound effect simulating the sound of four speakers with two speakers, in case the broadcasted audio signal is a Dolby Surround encoded programme. Besides that, the sound effect can also be improved by connecting your external amplifier (for details refer to "Connecting to external audio Equipment" on page 27).

** Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

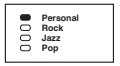
GB

Changing Sound Mode Quickly

You can quickly change Sound mode without entering the Sound Control menu screen.

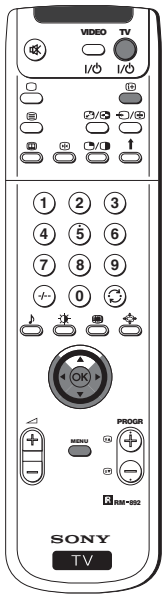
1 Press the ♪ button on the remote control to directly access to the Sound Mode.

2 Push the joystick to ▼ or ▲ to select your desired sound mode (**Personal, Rock, Jazz** or **Pop**), then press the **OK** button to remove the display from the screen.

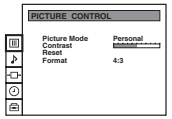


Using the Sleep Timer

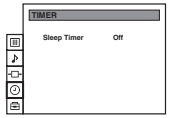
This function provides an overview of some of the features available on this set.



1 Press the **MENU** button on the remote control to display the menu on the screen.

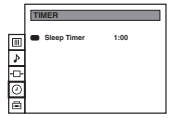


2 Push the joystick to ▼ button to select the ◴ symbol, then push to ► to enter to the **TIMER** menu.



3 Push the joystick to ►, then push to ◄ or ► repeatedly to set the time period delay

Off ► 0:30 ► 1:00..... 4:00 hours



4 Press the **OK** button.

5 Press the **MENU** button to exit and return to the normal TV screen.

One minute before the projection TV switches into standby mode, the indication "0:01" is displayed on the screen automatically.

Notes: • When watching the TV, press the ⊕ button on the remote control to display the time remaining.
• To return to normal operation from standby mode, press the **TV** I/⏻ button on the remote control.

Viewing Teletext

Teletext is an information service transmitted by most TV stations.

Make sure to use a TV channel with a strong signal, otherwise teletext errors may occur.



Selecting Teletext

1 Select the TV channel which carries the teletext service you wish to view.

2 Press the ▤ button on the remote control to switch on the teletext.



3 Input three digits for the page number, using the numbered buttons on the remote control. (if you have made a mistake, type in any three digits and then, re-enter the correct page number).

4 Press the ▢ button to switch off teletext.

GB

Using other Teletext functions

TO	PRESS THE BUTTON
Access the next or preceding page	▤▲ for next page or ▤▼ for the preceding page
Superimpose teletext on to the TV	▤ Press ▤ again to cancel teletext mode.
Freeze a teletext page	⊕ Press ⊕ again to cancel the freeze.
Reveal concealed information (e.g. answer to a quiz)	⊕ Press ⊕ again to cancel.



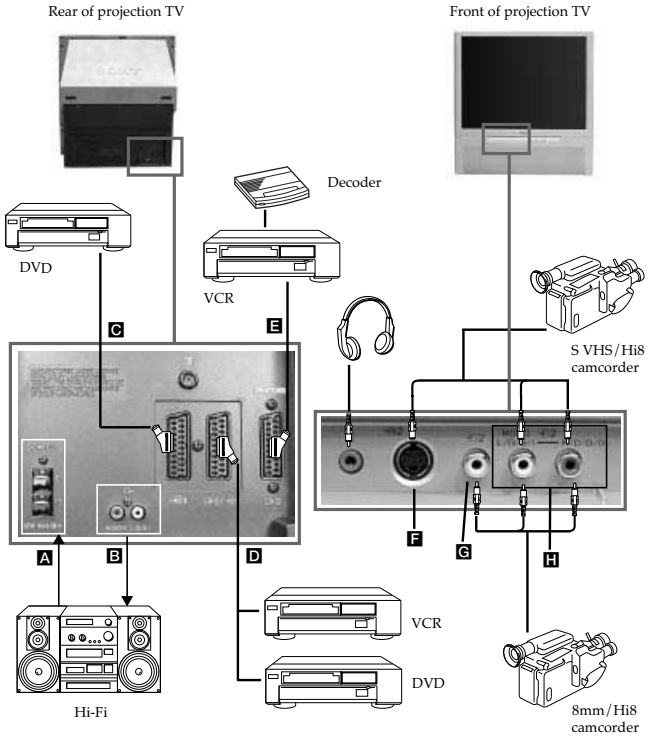
Using Fastext

Fastext lets you access pages with one button stroke.

When Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) on the remote control to access the corresponding page.

Connecting Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to your projection TV.



To avoid picture distortion:
- Do not connect equipment to F and G connectors at the same time.
- Do not connect any equipment on the front connectors together with D connector.

Acceptable input signal	Available output signal
A Centre speaker input. Set "Speaker" on the SOUND CONTROL menu to "Centre in".	No outputs
B No inputs	Audio signal.
C Audio/video and RGB signal	Video/audio displayed on TV tuner.
D Audio/video and S video signal	Video/audio from selected source.
E Audio/video signal	Video/audio from selected source (the same output source as the 2/2 connector)
F S Video signal	No output.
G Video signal	No output.
H Audio signal	No output.

Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

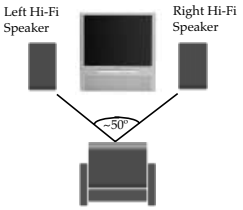
We recommend you connect your VCR to the D or E socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the VCR signal to TV programme number "0".
If your video supports Smartlink please refer the "Smartlink" section of this instruction manual.

Connecting to External Audio Equipment

1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Dolby Prologic system decoder amplifier to the B sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.
The output level from B sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

To enjoy "Dolby Virtual" sound effect through your Hi-Fi equipment:
Place the speakers of your equipment in front of your sitting place and besides the TV set but keeping a distance of 50 cm from each speaker to the TV set.
Then by using the menu system, select the menu "Sound Control" and set "Dolby Virtual" to "On".



2 To listen to the Dolby amplifier equipment on the projection TV speakers:

Plug in your Hi-Fi equipment to the A socket on the rear of the projection TV if you wish to listen to the audio output from your Hi-Fi on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the A socket to use the projection TV as a centre speaker. Refer to the "Adjusting the Sound" section of this instruction manual and set the option "Speaker" to "Centre in".

For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the 2 input signal using the instructions on this page below.

Select and View the Input Signal



1 Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.

2 Switch on the connected equipment.

3 Press the button repeatedly on your remote control until the correct input symbol appears on the screen.

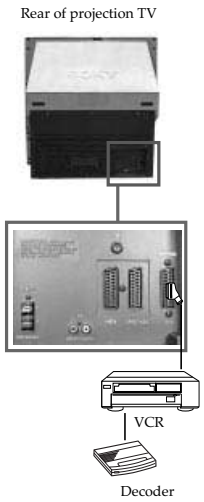
Symbol	Input signals
1	• Audio/video input signal through the Euro AV connector C
	• RGB input signal through the Euro AV connector C
2	• Audio/Video input signal through the Euro AV connector D or the phono sockets H and G.
2	• Audio/S Video input signal through the Euro AV connector D or the sockets H and F.
3	• Audio/Video input signal through the Euro AV connector E.

4 To return to the normal TV picture, press the button on the remote control.

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Smartlink

Smartlink is a direct link between your projection TV set and a VCR.



For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.

  Megalogic is a trademark of Grundig Corporation.
  EasyLink is a trademark of Philips Corporation.

- A fully-wired 21 pin SCART cable to connect your VCR to the Euro AV connector ☞3 (SMARTLINK) on the rear of the Projection TV.

The features of Smartlink are:

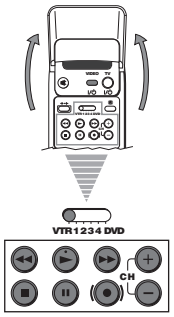
- Tuning information such as the channel overview are downloaded from the Projection TV set to the VCR.
- Direct projection TV recording: While watching TV you need to press just one button on the VCR to record this programme.
- Projection TV in standby mode: Press the "Play ▶" button on your VCR to switch the TV automatically on.

If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the (PRESET) menu and select **DECODER AV3** to each codified channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

For more information on Smartlink, please refer to the Instruction Manual of your VCR.

Remote Control of other Sony Equipment

Using the buttons underneath the cover of the remote control you can control other Sony equipment.



1 Open the cover of the Remote Control.

2 Set the selector VTR 1234 DVD according to the equipment you want to control:

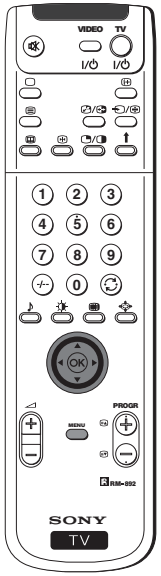
VTR 1	Beta VCR
VTR 2	8 mm VCR
VTR 3	VHS VCR
VTR 4	Digital Video (DCR-VX 1000/9000 E, VHR-1000)
DVD	Digital Video Disk

3 Use the buttons underneath the cover on the remote control to operate the equipment.

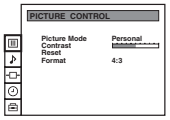
- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the TV Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control does not work.

Selecting the output source for the Euro AV connectors

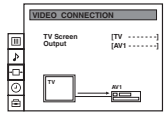
Using this function you can record on your VCR any signal coming from an external equipment connected to the Euro AV connectors ☞2/⇦ 2 or ☞3 placed on the rear of the projection TV.
In that case you have to select the output source as described below (if your VCR support Smartlink, this procedure is not necessary).



1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to ▼ to select the ☐ symbol, then push to ▶ button to enter to the **VIDEO CONNECTION** menu screen.



3 Push the joystick to ▼ or ▲ button to highlight:

TV Screen (input source for the TV screen) or

Output (output source available for ☞2/⇦ 2 and ☞3 Euro AV connectors).

Push the joystick to ▶ to confirm.

4 Push the joystick to ◀ or ▶ repeteadly to select the desired source:

TV Screen **TV, AV1, RGB, AV2, YC2** or **AV3**

Output **TV, AV1, AV2, YC2, AV3** or **AUTO**

Then press the **OK** button to confirm.

If you select "**AUTO**", the output signal will always be the same one that is displayed on the screen.

If you have connected a decoder, please remember to change back the Output to "**TV**" for correct unscrambling.

5 Press the **MENU** button to exit and return to the normal TV screen.

The selected signal is available for your optional equipment connected to the appropriate Euro AV connector.

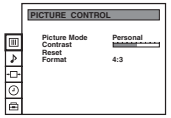
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Using the AV Label Preset feature

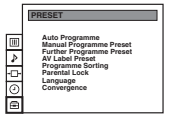
This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can be up to 5 characters (letters or numbers).



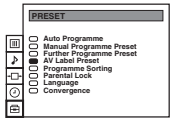
1 Press the **MENU** button on the remote control to display the menu on the screen.



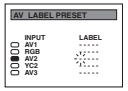
2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the **PRESET** menu screen.



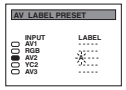
3 Push the joystick to ▼ or ▲ to select **AV Label Preset**, then push to ►.



4 Push the joystick to ▼ or ▲ select the input source you wish to name (eg AV2), then push to ► to highlight the first element of the **LABEL** column.



5 Push the joystick to ▼ or ▲ to select a letter or number (select "-" for a blank) then push to ► to confirm this character. Select the other four characters in the same way.



6 After selecting all the characters, press the **OK** button.

7 Repeat steps 4 to 6 if you wish to label other input sources.

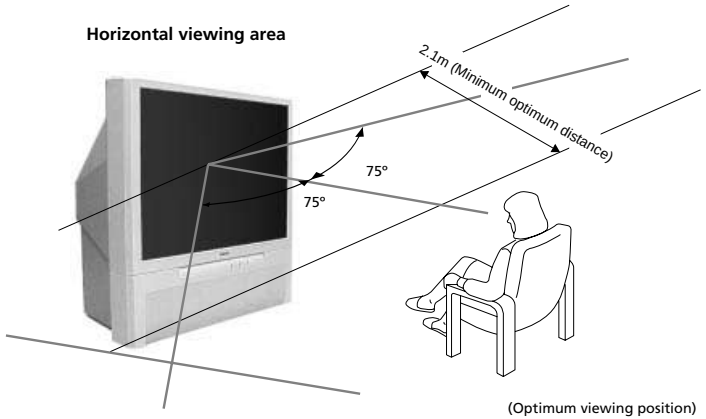
8 Press the **MENU** button to exit and return to the normal TV screen.

Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.

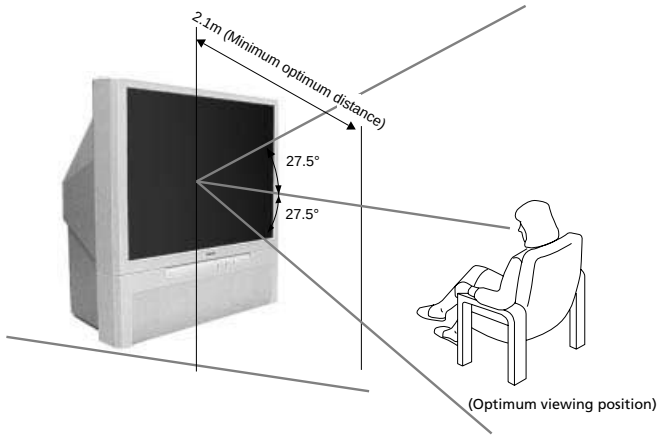
Optimum Viewing Area

For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

Horizontal viewing area



Vertical viewing area



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Troubleshooting

Here are some simple solutions to the problems which may affect the picture and sound.

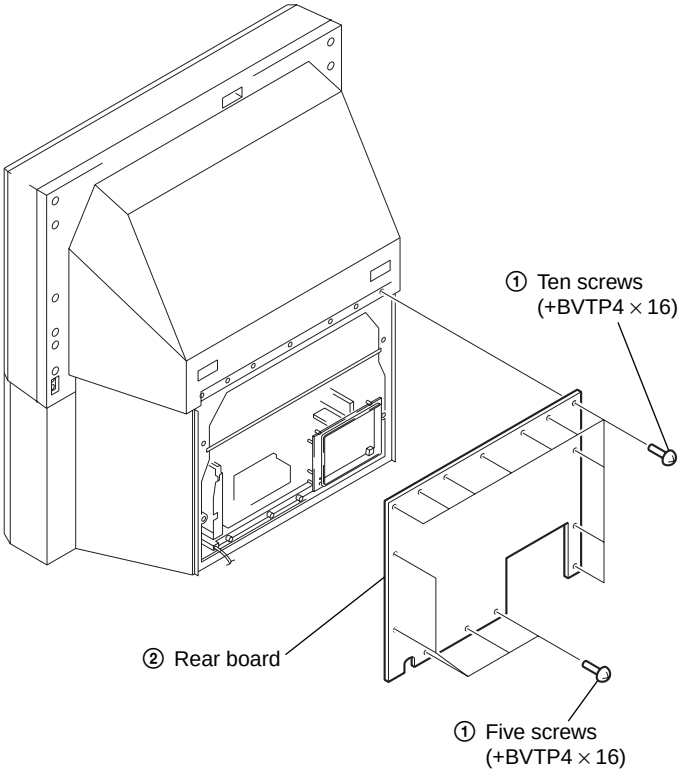
Problem	Solution
No picture (screen is dark), no sound.	• Plug the projection TV in. • Press the ⏻ button on the front of the projection TV. • If the ⏻ indicator is on, press **TV** I/⏻ button or a programme number button on the remote control. • Check the aerial connection. • Turn the projection TV off for 3 or 4 seconds and then turn it on again using the ⏻ button on the front of the projection TV.
Poor or no picture (screen is dark), but good sound.	• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. • From the Picture Adjustment display select **Reset** to return to the factory settings.
Poor picture quality when watching a RGB video source.	• Press the ⏎ button repeatedly on the remote control until the RGB symbol ⏎ is displayed on the screen.
Good picture, no sound	• Press the ◿ +/- button on the remote control. • If 🔇 is displayed on the screen, press the 🔇 button on the control. • Check that "**Main**" speaker is selected on the SOUND CONTROL menu.
No colour on colour programmes	• Using the MENU system, select the Picture Adjustment display. Adjust the colour balance. • From the Picture Adjustment disply select Reset to return to the factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off any equipment connected to the 21 pin Euro connectors on the rear of the TV.
Noisy picture when viewing TV channel	• Adjust Fine Tuning (AFT) to obtain better picture reception. For details, please refer to the section "Using the Further Programme Preset function"
Remote control does not function	• Replace the batteries.
The standby indicator ⏻ on the set flashes.	• Contact your nearest Sony service centre.

• If you continue to have these problems, have your TV serviced by qualified personnel.
• NEVER open the casing yourself.

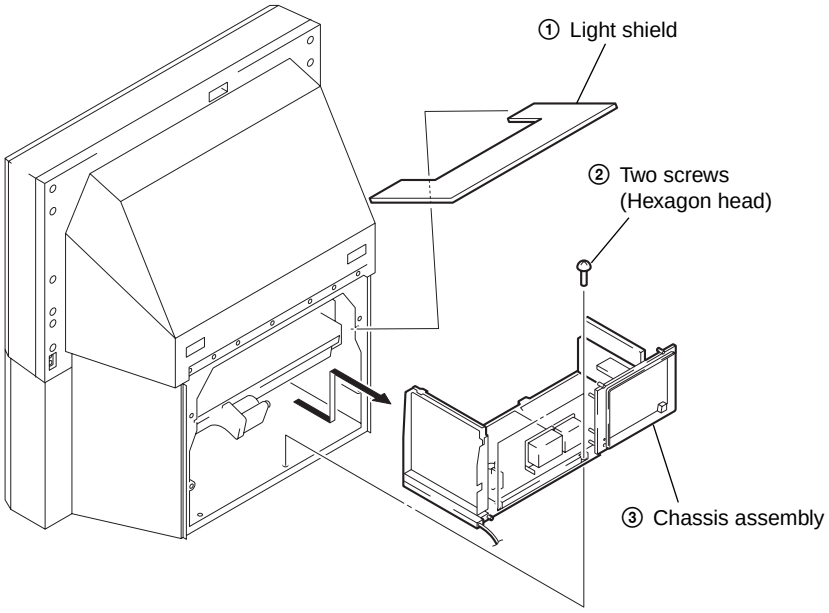
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SECTION 3
DISASSEMBLY

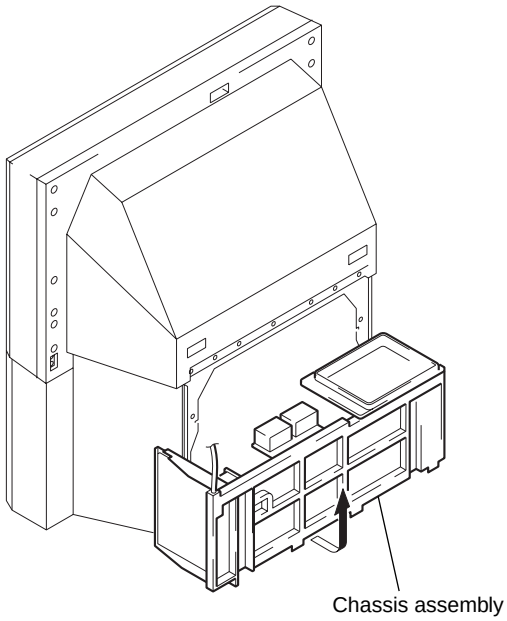
3-1. REAR BOARD REMOVAL



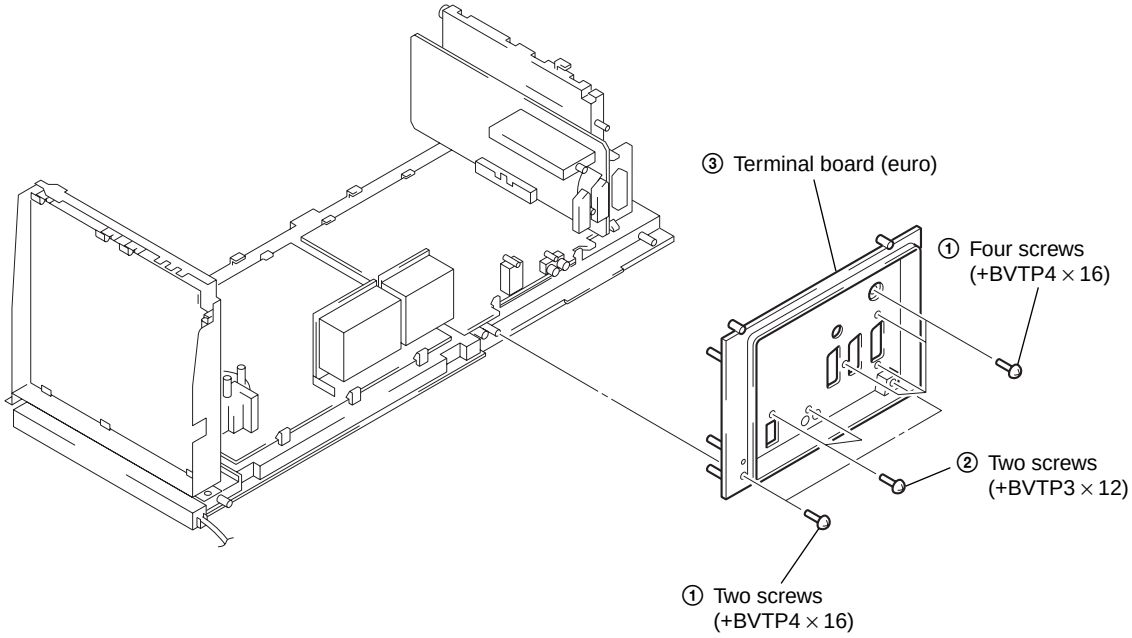
3-2. CHASSIS ASSEMBLY REMOVAL



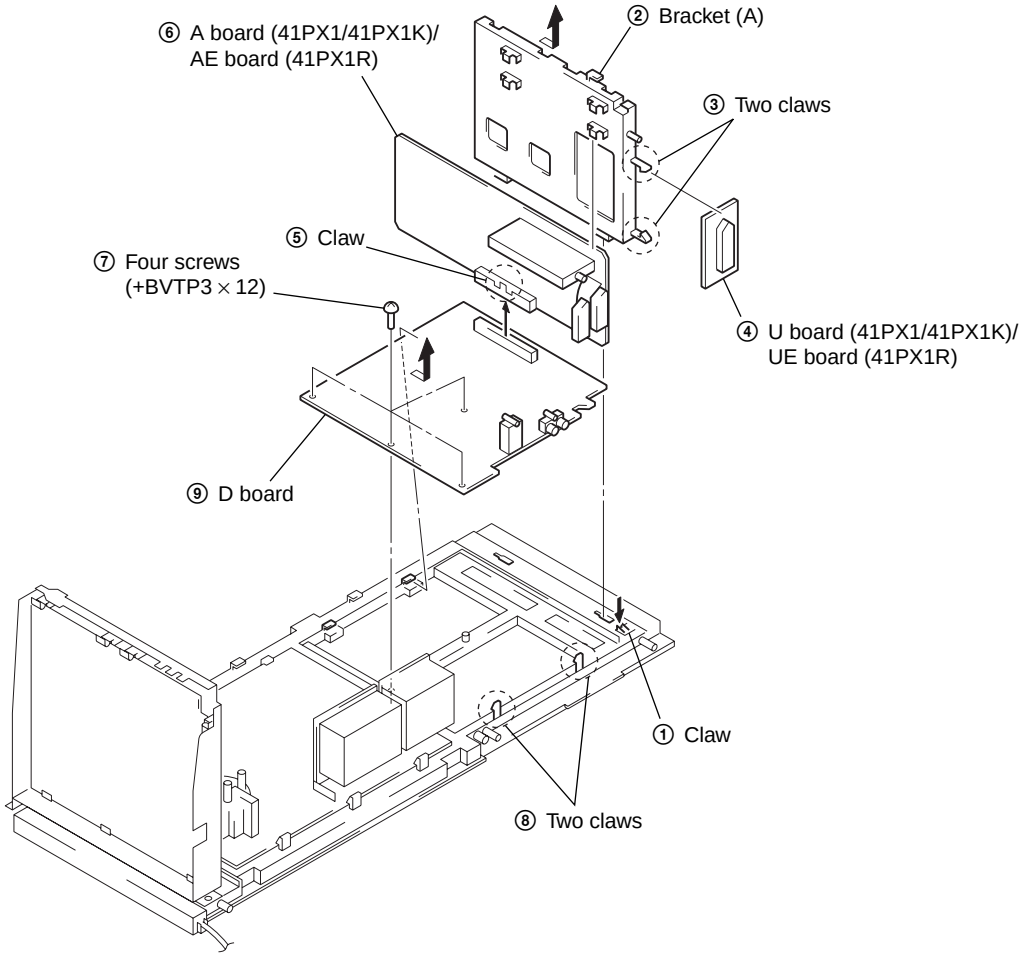
3-3. SERVICE POSITION



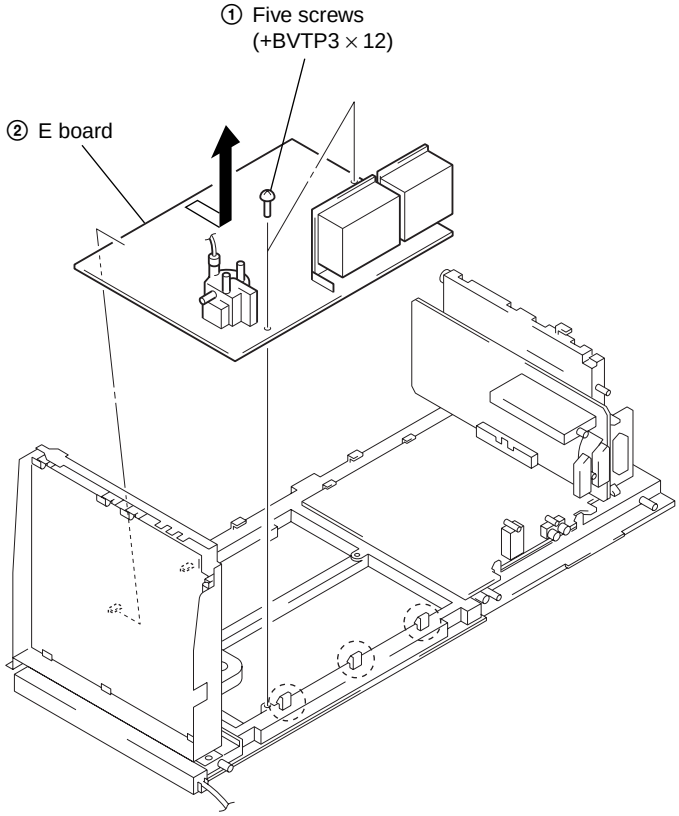
3-4. TERMINAL BOARD REMOVAL



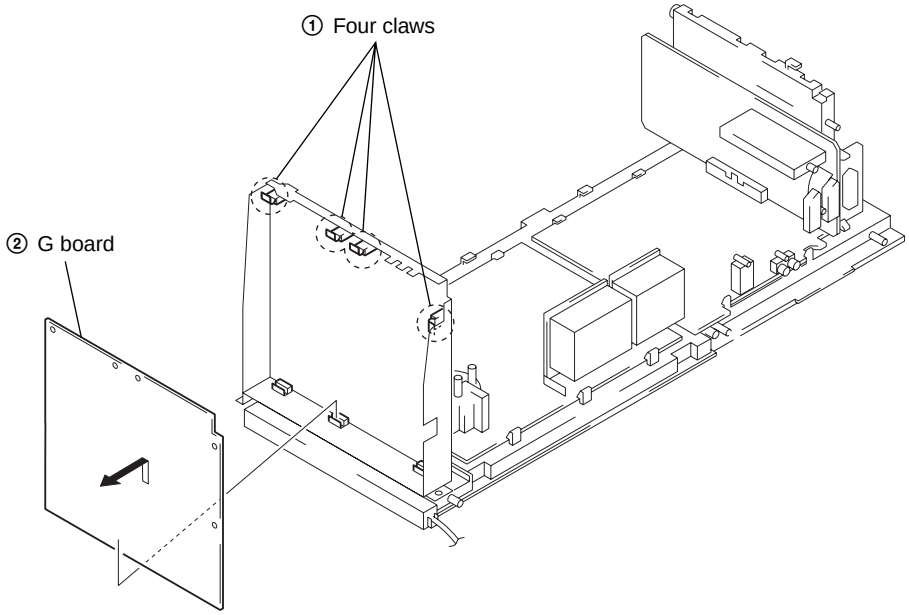
3-5. U (UE), A (AE) AND D BOARDS REMOVAL



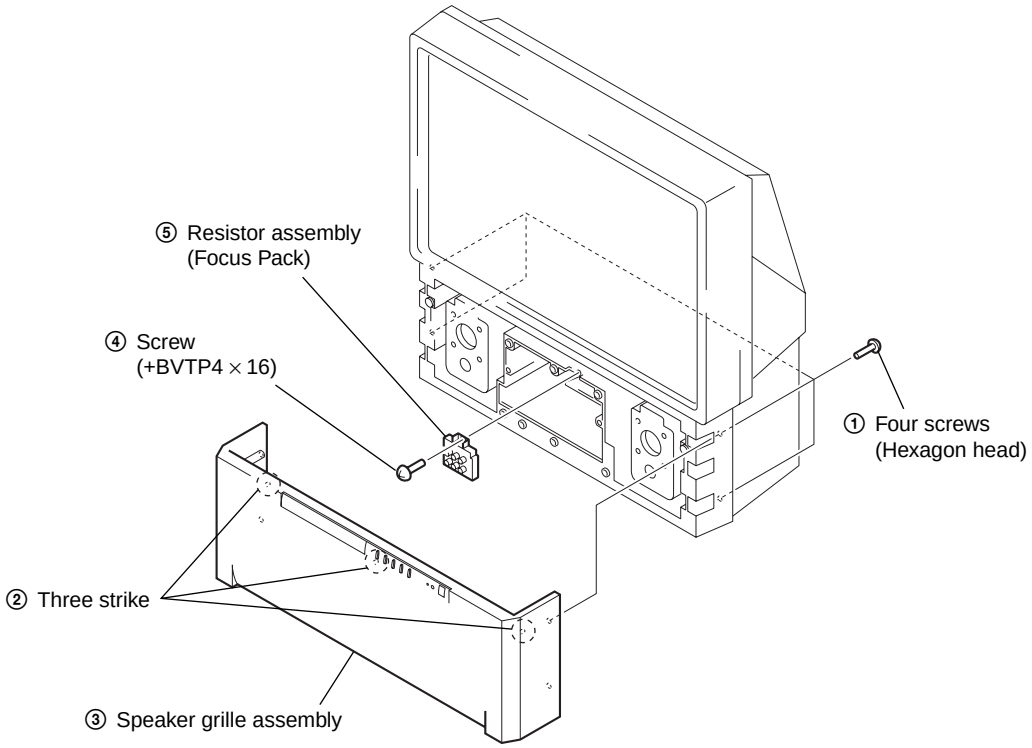
3-6. E BOARD REMOVAL



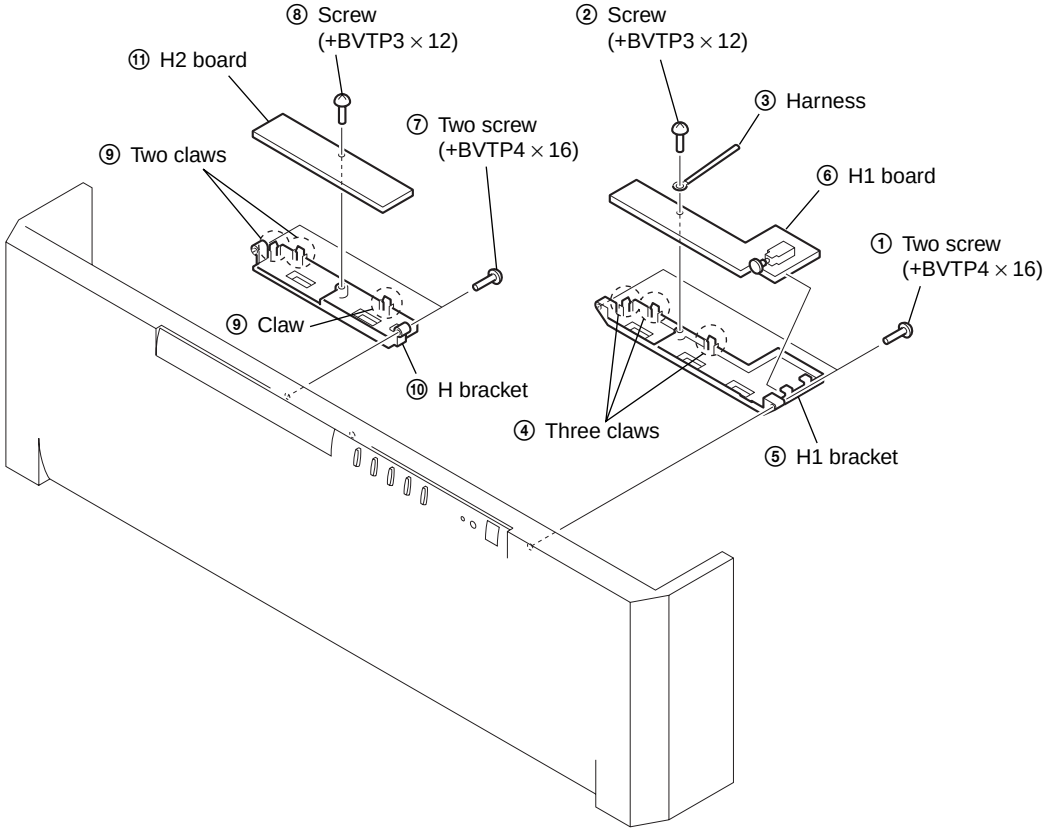
3-7. G BOARD REMOVAL



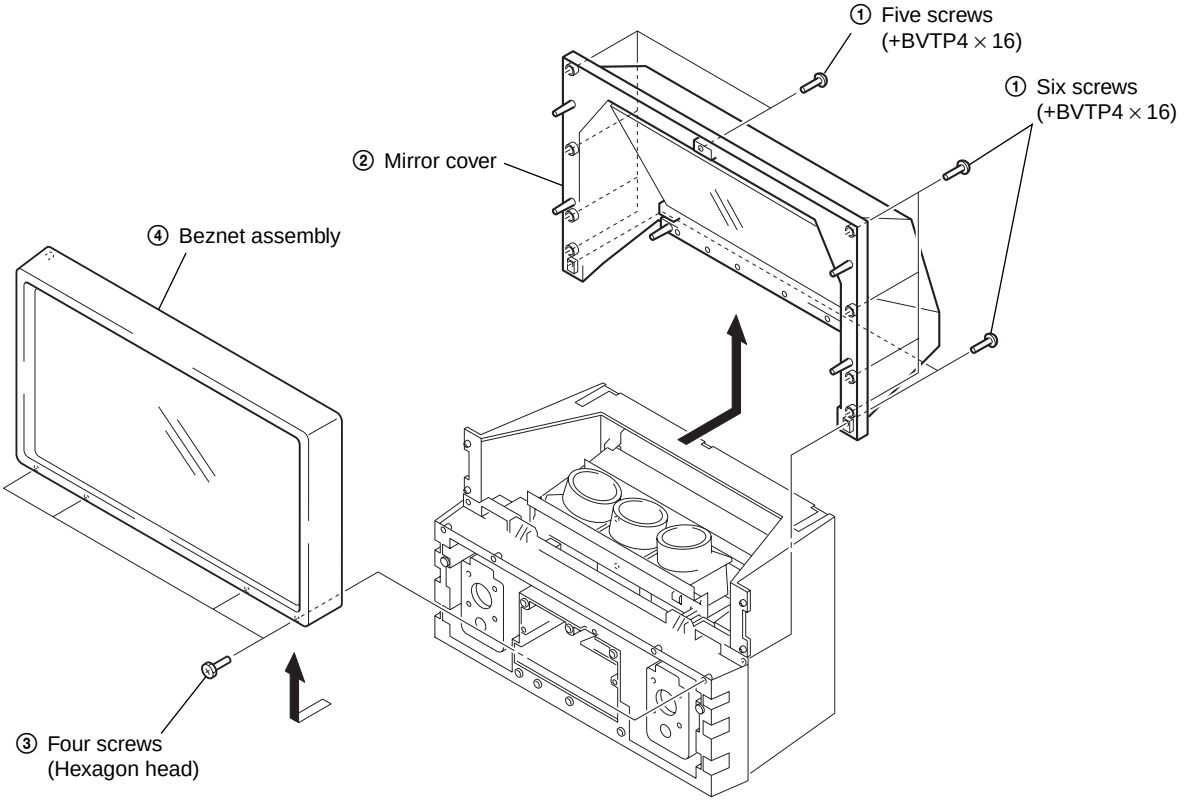
3-8. SPEAKER GRILLE AND RESISTOR ASSEMBLY (FOCUS PACK) REMOVAL



3-9. H1 AND H2 BOARDS REMOVAL

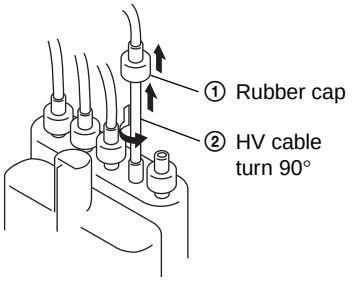


3-10. MIRROR COVER AND BEZNET ASSEMBLY REMOVAL

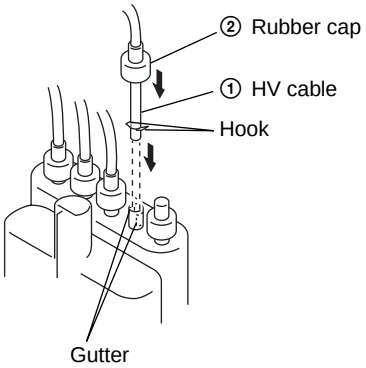


3-11. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION

(1) Removal

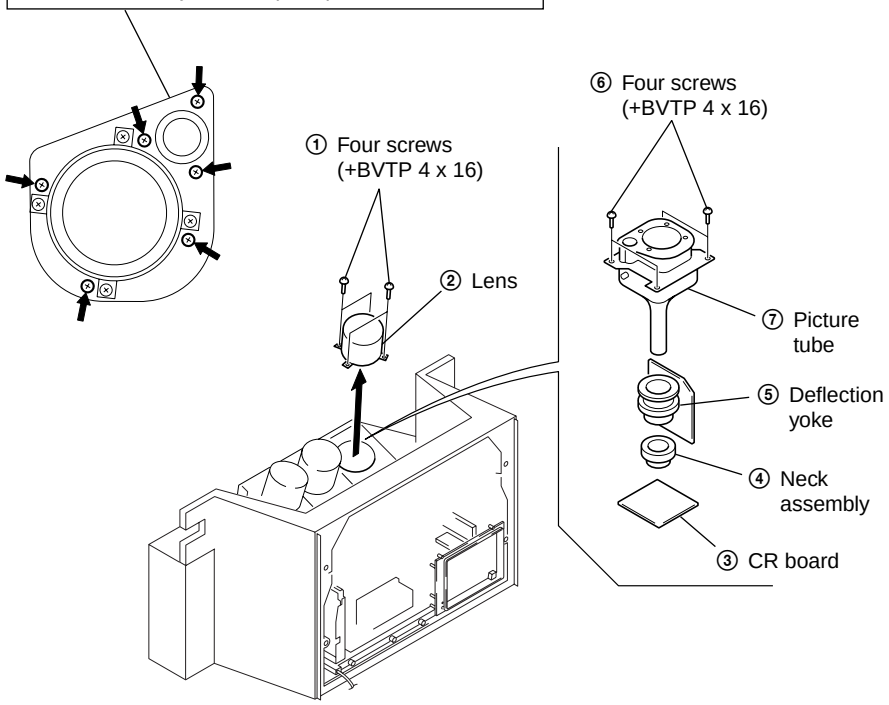


(2) Installation



3-12. PICTURE TUBE REMOVAL

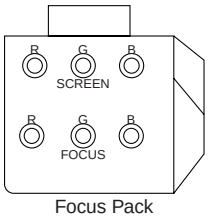
Removing the arrow-marked screw is strictly inhibited.
If removed, it may cause liquid spill.



SECTION 4
SET-UP ADJUSTMENTS

4-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.



Focus Pack

Fig. 4-1

4-2. FOCUS ROUGH ADJUSTMENT

1. Loose the lens screw.
2. Set in the service mode. (Refer to SECTION 6.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press “MENU” on the Commander and select Convergence and OSD CHSW = “00” to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align to obtain the best lens focus at the center area.
6. Rotate the green focus VR on the focus pack and align to obtain the best electrical focus at the center area.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

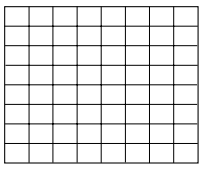

Test signal

Fig. 4-2

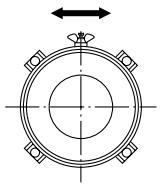

Lens

Fig. 4-3

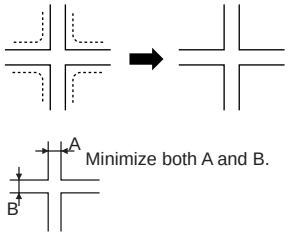


Fig. 4-4

4-3. SCREEN (G2) ADJUSTMENT

1. Connect JIG (A) to 200 V and GND.
2. Select VIDEO1 mode without signals.
3. Connect JIG to the TP701(KR), TP731(KG) or TP761(KB) of CR board, CG board and CB board.
4. Adjust R, G and B screen voltage to until retrace line disappears with screen VR on the focus pack.

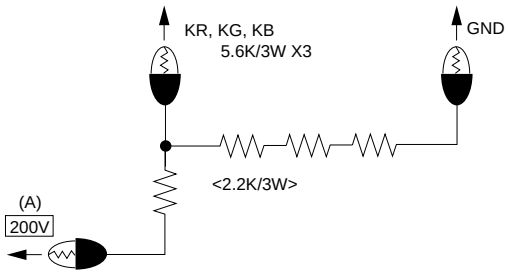
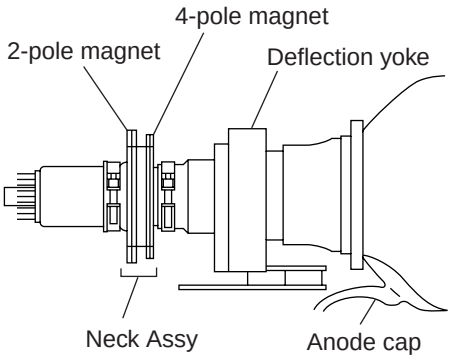


Fig. 4-5

4-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.



Make sure deflection yoke is touching CRT closely.

Fig. 4-6

4-5. 2-POLE MAGNET ADJUSTMENT (GREEN AND RED)

1. Receive the Dot signal and set PICTURE to 80%, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot.
   (Center of the dot does not move)
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red.

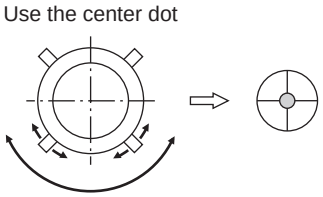


Fig. 4-7

4-6. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal and set PICTURE to 80%, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle for green and red.
5. Perform the same alignment for red and blue.

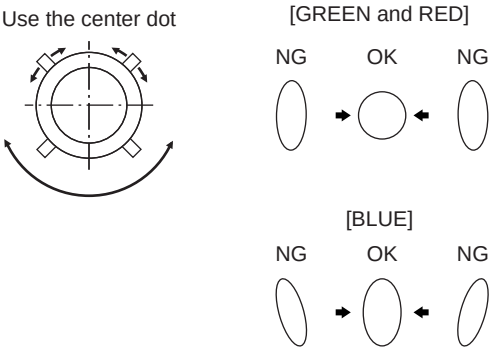


Fig. 4-8

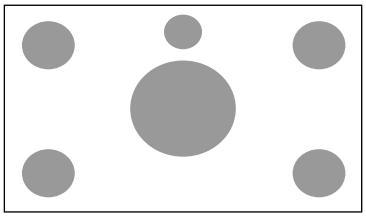
4-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT

4-7-1. Green, Red and Blue Lens Focus Adjustment

1. Receive the Monoscope signal and set PICTURE to minimum, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green lens and adjust to obtain the best lens focus in all areas.
4. Fix lens screw.
5. Repeat above process for red and blue.

4-7-2. Green, Red and Blue Electrical Focus Adjustment

1. Receive the Monoscope signal and set PICTURE to minimum, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus VR on the focus pack and adjust to obtain the best electrical focus in all areas.
4. Repeat above process for red and blue.



Adjust Point : Circulars Areas

Fig. 4-9

SECTION 5
SAFETY RELATED ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced (⋈)
R1

Part Replaced (◪)					
E Board	C515, L506, R517,	C516, Q502, T502,	C554, R1, T504 (FBT)	D504, R514,	D507, R516,
G Board	IC6005				

5-1. HV HOLD-DOWN ADJUSTMENT

1. Connect HV static voltmeter to HV Block.
2. Remove CN810 and connect External Power Supply to CN810 ② pin (+135 V) and ① pin (GND).

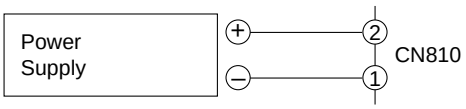


Fig. 5-1

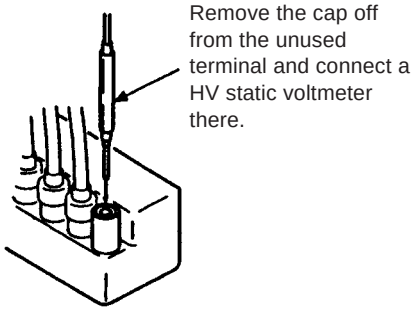


Fig. 5-2

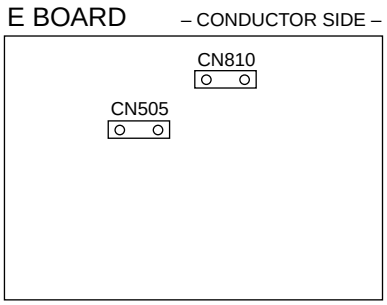


Fig. 5-3

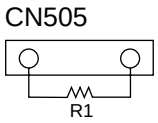


Fig. 5-4

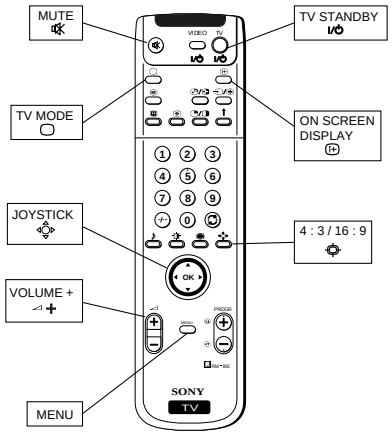
3. Turn on the set.
4. Receive the Dot signal and set PICTURE/BRIGHTNESS to minimum.
5. Slowly up the supply voltage from 0 V to 135 V until hold-down circuit works (picture disappear).
6. Read the HV static voltmeter of peak HV voltage.
   Spec : 33.7 to 36.0 KV
7. If Hold-down voltage is less than 33.7 KV then solder R1 = 820 K and check if the voltage is within the spec.
8. If hold-down voltage is over than 36.0 KV then take-off R514 and solder R1 = 9.1 K and check if the voltage is within the spec.

SECTION 6
ELECTRICAL ADJUSTMENTS

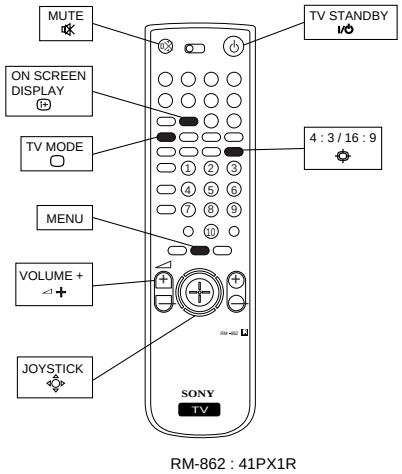
6-1. HOW TO ENTER THE SERVICE MODE

6-1-1. Adjustment Method with Commander

Service adjustment to this model can be performed with the supplied remote commander RM-892 (41PX1/41PX1K) or RM-862 (41PX1R).

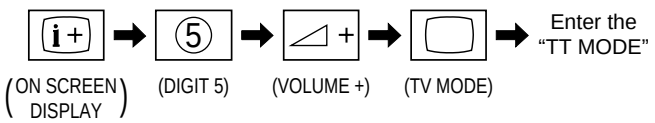


RM-892 : 41PX1/41PX1K



RM-862 : 41PX1R

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



"TT - -" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press "MENU" on the commander to obtain the following menu on the screen.
   (With some models, display items may be different from the following)

```
TEST MENU

    Picture Adjustment
    Geometry
    Wide
    IC Status
    MSP
    Dynamic Convergence
    Current TV Status
    Convergence
```

4. Move to the corresponding adjustment using the joystick (▲ or ▼ : up or down) on the commander.
5. Move the joystick to the right (▶) to enter the selected adjustment.
6. Press "◇ (OK)" to exit.
7. Before TURN OFF is necessary:
   DATA WRITE : Press "🔇 (MUTE)" + "⓪"
   DATA COPY : Press "ⓘ+ (ON SCREEN DISPLAY)" + "⓪"
8. Turn off the power to quit the service mode when adjustments are completed.

6-1-2. Screen Display on the Test Menu

(With some models, display items and contents may be different from the following)

Picture Adjustment

```
PICTURE ADJUSTMENT

     AFC Mode          1        0 - 3
     Ref Position      3        0 - 3
     SCP BGR           1        0 - 3
     SCP BGF           1        0 - 3
     Trap F0           0        0 - 15
     Sub Contrast      11       0 - 15
     Sub Colour        10       0 - 15
     Sub Brightness    13       0 - 63
     Green Drive       51       0 - 63
     Blue Drive        43       0 - 63
     Green Cutoff      8        0 - 15
     Blue Cutoff       10       0 - 15
     Gamma             1        0 - 3
     Pre / Overshoot   2        0 - 3
     Y Delay           3        0 - 7
     D Pic             ON       ON/OFF
     D Colur           OFF      ON/OFF
     DC Transfer       ON       ON/OFF
```

Geometry (∗ : No need to adjust)

```
GEOMETRY ADJUSTMENT

                    4:3  16:9
  V Size             15    15    0 - 63
  V Position         47    47    0 - 63
  S Correction       0     0     0 - 15
  V Linearity        12    12    0 - 15
  H Size             40    40    0 - 63
  H Position         15    15    0 - 15
  Pin Amp            18    20    0 - 63
  Pin Phase          12    12    0 - 15
  AFC Bow            8     8     0 - 15
  AFC Angle          9     9     0 - 15
∗ EHT V              1     1     0 - 3
∗ EHT H              0     0     0 - 3
  Lo Corn Pin        4     6     0 - 15
  Up Corn Pin        1     3     0 - 15
```

Wide (∗ : No need to adjust)

```
WIDE ADJUSTMENT

                      4:3   16:9
∗ V Aspect             47    47    0 - 63
∗ V Scroll             25    25    0 - 63
∗ Upper V Lin          0     0     0 - 15
∗ Lower V Lin          0     0     0 - 15
∗ Left Blanking        11    11    0 - 15
∗ Right Blanking       11    11    0 - 15
```

IC Status

```
IC STATUS (CXA2076 / CXA2040)

CXA2076
     H lock              1
     IKR                 1
     V NG                0
     XRAY                0
     Colour System       7
     CV1 Sync            0
CXA2040
     Sync Sep          1
     S1 Mode Pin       01
     S2 Mode Pin       01
PORT EXPANDER
     Power Good          0
TUNER
     Tuner Status      01111100
```

MSP

```
MSP ADJUSTMENT
SDR    1    CONCCT      0    FAWCTIST   12

    AGC On / Off          ON      ON/OFF
    Constant Gain CDB     0       0 - 20
    FM Prescale FMP       36      0 - 127
    Zwei Mono-St WHI      36      0 - 127
    Zwei St-Mono WLO      18      0 - 127
    Zwei Mono-Bi WMH      36      0 - 127
    Zwei Bi-Mono WLO      18      0 - 127
    Time Zwei WML         41      0 - 127
    FAWCT Limit           10      0 - 127
    FAWCT Soll Init FAW   12      0 - 127
    FAW ER Tol            2       0 - 127
    NICAM Err Max CCT     10      0 - 127
    NICAM Err Min         0       0 - 127
    Time NICAM            26      0 - 127
    Audio Clock ACO       HIZ     ON/HIZ
    SCART Prescale        25      0 - 127
    SCART Volume          64      0 - 127
    NICAM Prescale I      127     0 - 127
    NICAM Prescale L      97      0 - 127
    NICAM Prescale BG     97      0 - 127
    NICAM Prescale DK     97      0 - 127
```

Dynamic Convergence

```
DYNAMIC CONVERGENCE

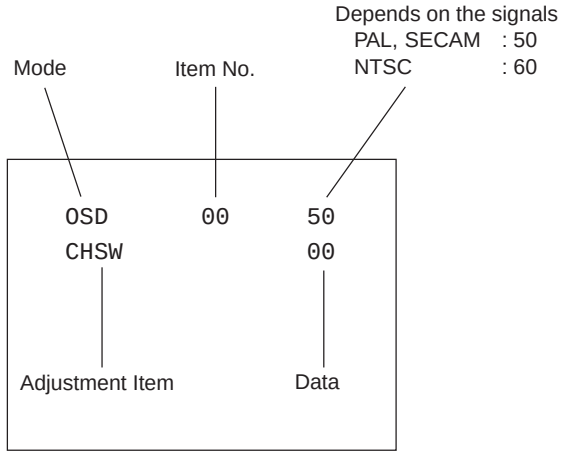
     Range            0        0 - 42
     H stat           0        OFF - 63
     H amp l          0        OFF - 63
     H amp r          0        OFF - 63
     Up Y             0        OFF - 63
     Low Y            0        OFF - 63
     Y up l           0        OFF - 63
     Y up r           0        OFF - 63
     Y low l          0        OFF - 63
     Y low r          0        OFF - 63
     Mbow up l        0        OFF - 63
     Mbow up r        0        OFF - 63
     Mbow low l       0        OFF - 63
     Mbow low r       0        OFF - 63
     V stat           0        OFF - 63
```

Current TV Status

```
TV STATUS RE-2A(TT09)

    Text System          C Text-2
    Dolby Enabled        No
    DSP Present          No
    Text Language Set    East/Greek
    Menu Language Set    East
    Destination          AEP
    Ageing               Disabled
    Auto Shut Off        Enabled
    Size                 PJ
    Colour Trap Sw       All
    Velocity Mod         On
    AFT Status
    Digital PF           No
    Micro/Jungle         SDA5250/CXA2076
```

Convergence



6-1-3. Service List (Convergence)

(With some models, contents may be different from the following)

Mode	Item Number	Adjustment Item	Data Range	Initial Data 16 : 9	Initial Data 4 : 3	Name / Description	Device
OSD	00	CHSW	00, 01	00		HATCH DISPLAY 00 : Internal Pattern (Crosshatch) 01 : External Pattern	
	01	OSH	01 ~ 32	10		OSD H Position	
	02	OSV	01 ~ 32	10		OSD V Position	
	03	VMRK	00, 01	00		V SIZE MARKER ON / OFF (cannot write to NVM)	
SFT	00	SFTE	00, 01	01		SHIFT ENABLE 00 : Disable 01 : Enable	
	01	SFTF	00, 01	00		SHIFT FAST 00 : Normal 01 : Quick (cannot write to NVM)	
GH	00	GSEL	00, 01	00	00	OSD SELECT FOR GH, GV 00 : Green+Red 01 : Green	CXP86213
	01	CENT	–127 ~ +127	12	12	GREEN H CENTER	
	02	SKEW	–127 ~ +127	–03	–03	GREEN H SKEW	
	03	BOW	–127 ~ +127	00	00	GREEN H BOW	
	04	4BOW	–127 ~ +127	00	00	GREEN H 4th BOW	
	05	SIZE	–127 ~ +127	–27	–27	GREEN H SIZE	
	06	LIN	–127 ~ +127	–21	–21	GREEN H LINEARITY	
	07	MSIZ	–127 ~ +127	21	21	GREEN H MID SIZE	
	08	MLIN	–127 ~ +127	–03	–03	GREEN H MID LINEARITY	
	09	KEY	–127 ~ +127	00	00	GREEN H KEYSTONE	
	10	SSKW	–127 ~ +127	–12	–12	GREEN H SUB SKEW	
	11	MPIN	–127 ~ +127	10	10	GREEN H MID PINCUSHION	
	12	PIN	–127 ~ +127	–10	–10	GREEN H PINCUSHION	
	13	SBOW	–127 ~ +127	09	09	GREEN H SUB BOW	
	14	MBOW	–127 ~ +127	00	00	GREEN H MID BOW	
	15	4PIN	–127 ~ +127	09	09	GREEN H 4th PINCUSHION	
	16	4SBO	–127 ~ +127	00	00	GREEN H 4th SUB BOW	

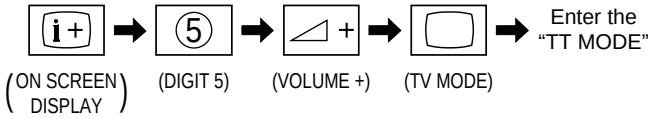
Mode	Item Number	Adjustment Item	Data Range	Initial Data		Name / Description	Device
				16 : 9	4 : 3		
GV	00	CENT	–127 ~ +127	03	03	GREEN V CENTER	CXP86213
	01	SKEW	–127 ~ +127	–17	–17	GREEN V SKEW	
	02	BOW	–127 ~ +127	00	00	GREEN V BOW	
	03	SIZE	–127 ~ +127	–25	–25	GREEN V SIZE	
	04	LIN	–127 ~ +127	–12	–12	GREEN V LINEARITY	
	05	MSIZ	–127 ~ +127	30	30	GREEN V MID SIZE	
	06	MKEY	–127 ~ +127	00	00	GREEN V MID KEYSTONE	
	07	KEY	–127 ~ +127	02	02	GREEN V KEYSTONE	
	08	SSKW	–127 ~ +127	–08	–08	GREEN V SUB SKEW	
	09	MPIN	–127 ~ +127	00	00	GREEN V MID PINCUSHION	
	10	PIN	–127 ~ +127	37	37	GREEN V PINCUSHION	
	11	SBOW	–127 ~ +127	27	27	GREEN V SUB BOW	
	12	WAVW	–127 ~ +127	00	00	GREEN V WAVE	
	13	4PIN	–127 ~ +127	03	03	GREEN V 4th PINCUSHION	
RH	00	CENT	–95 ~ +96	–25	–25	RED H CENTER	
	01	SKEW	–95 ~ +96	–05	–05	RED H SKEW	
	02	BOW	–127 ~ +127	08	08	RED H BOW	
	03	4BOW	–127 ~ +127	00	00	RED H 4th BOW	
	04	SIZE	–127 ~ +127	–25	–25	RED H SIZE	
	05	LIN	–127 ~ +127	–55	–55	RED H LINEARITY	
	06	MSIZ	–127 ~ +127	38	38	RED H MID SIZE	
	07	MLIN	–127 ~ +127	–21	–21	RED H MID LINEARTIY	
	08	KEY	–127 ~ +127	–17	–17	RED H KEYSTONE	
	09	SSKW	–127 ~ +127	–23	–23	RED H SUB SKEW	
	10	MPIN	–127 ~ +127	03	03	RED H MID PINCUSHON	
	11	PIN	–127 ~ +127	–02	–02	RED H PINCUSHON	
	12	SBOW	–127 ~ +127	84	84	RED H SUB BOW	
	13	MBOW	–127 ~ +127	11	11	RED H MID BOW	
	14	4PIN	–127 ~ +127	13	13	RED H 4th PINCUSHON	
	15	4SBO	–127 ~ +127	–03	–03	RED H 4th SUB BOW	
RV	00	CENT	–95 ~ +96	–20	–20	RED V CENTER	
	01	SKEW	–95 ~ +96	–23	–23	RED V SKEW	
	02	BOW	–127 ~ +127	02	02	RED V BOW	
	03	SIZE	–127 ~ +127	13	13	RED V SIZE	
	04	LIN	–127 ~ +127	–03	–03	RED V LINEARITY	
	05	MSIZ	–127 ~ +127	28	28	RED V MID SIZE	
	06	MKEY	–127 ~ +127	12	12	RED V MID KEYSTONE	
	07	KEY	–127 ~ +127	–19	–19	RED V KEYSTONE	
	08	SSKW	–127 ~ +127	02	02	RED V SUB SKEW	
	09	MPIN	–127 ~ +127	–02	–02	RED V MID PINCUSHON	
	10	PIN	–127 ~ +127	16	16	RED V PINCUSHON	
	11	SBOW	–127 ~ +127	25	25	RED V SUB BOW	
	12	WAVW	–127 ~ +127	36	36	RED V WAVE	
	13	4PIN	–127 ~ +127	–02	–02	RED V 4th PINCUSHON	
	14	MWAV	–31 ~ +31	–07	–07	MID WAVE	
BH	00	BSEL	00, 01	00	00	OSD SELECT FOR BH, BV 00 : Blue + Green 01 : Blue + Red	
	01	CENT	–95 ~ +96	10	10	BLUE H CENTER	
	02	SKEW	–95 ~ +96	07	07	BLUE H SKEW	
	03	BOW	–127 ~ +127	–03	–03	BLUE H BOW	
	04	4BOW	–127 ~ +127	00	00	BLUE H 4th BOW	
	05	SIZE	–127 ~ +127	–18	–18	BLUE H SIZE	
	06	LIN	–127 ~ +127	11	11	BLUE H LINEARITY	
	07	MSIZ	–127 ~ +127	42	42	BLUE H MID SIZE	
	08	MLIN	–127 ~ +127	13	13	BLUE H MID LINEARTIY	
	09	KEY	–127 ~ +127	–01	–01	BLUE H KEYSTONE	
	10	SSKW	–127 ~ +127	–09	–09	BLUE H SUB SKEW	
	11	MPIN	–127 ~ +127	–03	–03	BLUE H MID PINCUSHON	
	12	PIN	–127 ~ +127	–06	–06	BLUE H PINCUSHON	
	13	SBOW	–127 ~ +127	–31	–31	BLUE H SUB BOW	
	14	MBOW	–127 ~ +127	–14	–14	BLUE H MID BOW	
	15	4PIN	–127 ~ +127	15	15	BLUE H 4th PINCUSHON	
	16	4SBO	–127 ~ +127	01	01	BLUE H 4th SUB BOW	

Mode	Item Number	Adjustment Item	Data Range	Initial Data 16 : 9	Initial Data 4 : 3	Name / Description	Device
BV	00	CENT	–95 ~ +96	–19	–19	BLUE V CENTER	CXP86213
	01	SKEW	–95 ~ +96	08	08	BLUE V SKEW	
	02	BOW	–127 ~ +127	05	05	BLUE V BOW	
	03	SIZE	–127 ~ +127	–08	–08	BLUE V SIZE	
	04	LIN	–127 ~ +127	–02	–02	BLUE V LINEARITY	
	05	MSIZ	–127 ~ +127	28	28	BLUE V MID SIZE	
	06	MKEY	–127 ~ +127	–12	–12	BLUE V MID KEYSTONE	
	07	KEY	–127 ~ +127	05	05	BLUE V KEYSTONE	
	08	SSKW	–127 ~ +127	–22	–22	BLUE V SUB SKEW	
	09	MPIN	–127 ~ +127	–07	–07	BLUE V MID PINCUSHON	
	10	PIN	–127 ~ +127	22	22	BLUE V PINCUSHON	
	11	SBOW	–127 ~ +127	29	29	BLUE V SUB BOW	
	12	WAVW	–127 ~ +127	–31	–31	BLUE V WAVE	
	13	4PIN	–127 ~ +127	–12	–12	BLUE V 4th PINCUSHON	
	14	MWAV	–31 ~ +31	–03	–03	MID WAVE	
ACV	00	ART0	01 ~ 08	06		DATA SAMPLE LENGTH (1 step = 1 µsec.)	
	01	AT1T	00 ~ 255	18		Data Sampling Start Time	
	02	AT1M	00 ~ 255	132		from V BLK (50Hz)	
	03	AT1B	00 ~ 255	240		(1 step = 64 µsec = approx. 1H)	
	04	AH51	01 ~ 255	18		(1 step = 1 OSD step) OSD H POS 50 (L&R)	
	05	AH52	01 ~ 255	130		OSD H POS 50 (UP&BOTTOM)	
	06	AV5T	00 ~ 255	01		(1 step = 2 lines) OSD V POS 50 (UP)	
	07	AV5M	00 ~ 255	60		OSD V POS 50 (L&R)	
	08	AV5B	00 ~ 255	130		OSD V POS 50 (BOTTOM)	
	09	AH61	01 ~ 255	18		(1 step = 1 OSD step) OSD H POS 60 (L&R)	
	10	AH62	01 ~ 255	130		OSD H POS 60 (BOTTOM)	
	11	AV6T	00 ~ 255	01		(1 step = 2 lines) OSD V POS 50 (UP)	
	12	AV6M	00 ~ 255	46		OSD V POS 50 (L&R)	
	13	AV6B	00 ~ 255	100		OSD V POS 50 (BOTTOM)	
	14	RHCO	–127 ~ +127	–48		(8 step = 1 step) RH CENT ADJ OFFSET	
	15	BHCO	–127 ~ +127	15		BH CENT ADJ OFFSET	
	16	RVCO	–127 ~ +127	–04		RV CENT ADJ OFFSET	
	17	BVCO	–127 ~ +127	03		BV CENT ADJ OFFSET	
	18	RHSO	–127 ~ +127	–03		RH SKEW ADJ OFFSET	
	19	BHSO	–127 ~ +127	05		BH SKEW ADJ OFFSET	
	20	RVSO	–127 ~ +127	09		RV SKEW ADJ OFFSET	
	21	BVSO	–127 ~ +127	–07		BV SKEW ADJ OFFSET	
	22	AERR	00 ~ 255	00		(Error Code)	
MSC	00	ACTL	00 ~ 255	10		Lower byte of counter value	
	01	ACTH	00 ~ 255	00		Higher byte of counter value	

6-2. REGISTRATION ADJUSTMENT

6-2-1. Registration Adjustment Method

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



3. Press "MENU" on the commander.
4. Move to the corresponding adjustment using the joystick (▲ or ▼ : up or down) on the commander.
5. Move the joystick to the right (►) to enter the selected adjustment.

With the joystick :

▲ or ▼ Items change

◄ or ► Data change

In internal pattern :
ITEM : Convergence

OSD CHSW = "00"	Internal pattern (crosshatch)
OSD CHSW = "01"	External pattern

Color of internal pattern :
ITEM : Convergence

GH GSEL = "00"	Green + Red
GH GSEL = "01"	Green
BH BSEL = "00"	Blue + Green
BH BSEL = "01"	Blue + Red

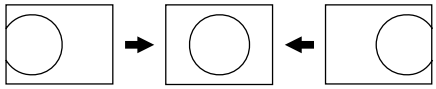
6-2-2. Main Deflection Adjustment

1. Receive the PAL SPCB signal.
2. Select 16 : 9 mode.
   Press "⊕ (blue key)" : 4 : 3 ➡ 16 : 9
   Need geometry adjustment to 16 : 9 mode and 4 : 3 mode. Production spec of each mode.
3. Select service mode and enter adjustment item for green signal.

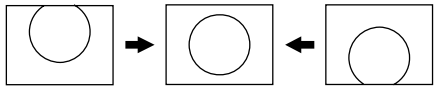
CENTER ADJUSTMENT

1. Adjust H Position and V Position.

H Position



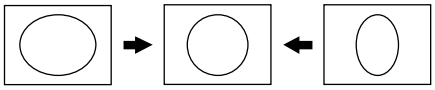
V Position



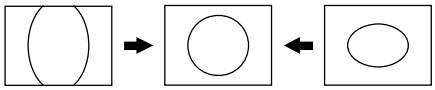
SIZE ADJUSTMENT

1. Make Convergence GH SIZE data "00".
2. Adjust Geometry H Size.
3. Make Convergence GV SIZE data "00".
4. Adjust Geometry V Size.
5. Adjust Geometry S Correction.

H Size



V Size



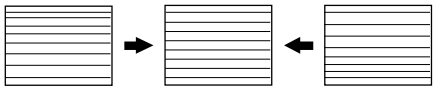
Signal : PAL SPCB

	H SIZE	V SIZE
16 : 9	16.6 ±0.2 sq	12.6 ±0.2 sq
4 : 3	17.1 ±0.2 sq	12.4 ±0.2 sq

MAIN DEFLECTION ADJUSTMENT

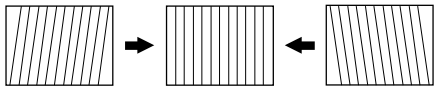
1. Adjust V Linearity.
   Correct linearity of the horizontal top and bottom lines.

   V Linearity



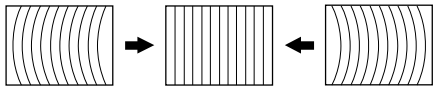
2. Adjust AFC Angle
   Correct the vertical center line to be in parallel with the screen edges and other colors.

   AFC Angle



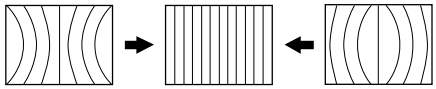
3. Adjust AFC Bow
   Correct linearity of the vertical center line.

   AFC Bow



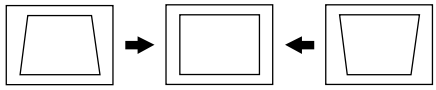
4. Adjust PIN Amp
   Correct the vertical left and right lines and eliminate pin-cushion-shaped distortion.

   PIN Amp



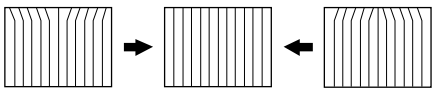
5. Adjust PIN Phase
   Correct the vertical left and right lines to be in parallel with each other.

   PIN Phase



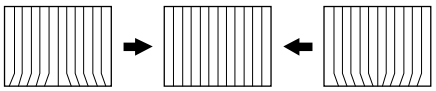
6. Adjust Up Corn Pin
   Correct the screen top section line bow.

   Up Corn Pin



7. Adjust Lo Corn Pin
   Correct the screen bottom section line bow.

   Lo Corn Pin



6-2-3. Sub Deflection Adjustment

1. Receive the PAL SPCB signal.
2. Select 16 : 9 mode.
   Press "⊕ (blue key)" : 4 : 3 ➧ 16 : 9
   Need geometry adjustment to 16 : 9 mode and 4 : 3 mode. Production spec of each mode.
3. Select service mode and enter adjustment item for green signal.

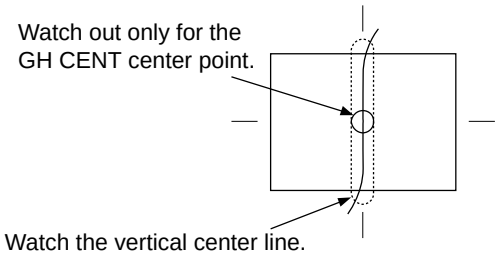
SUB DEFLECTION ADJUSTMENT ITEM

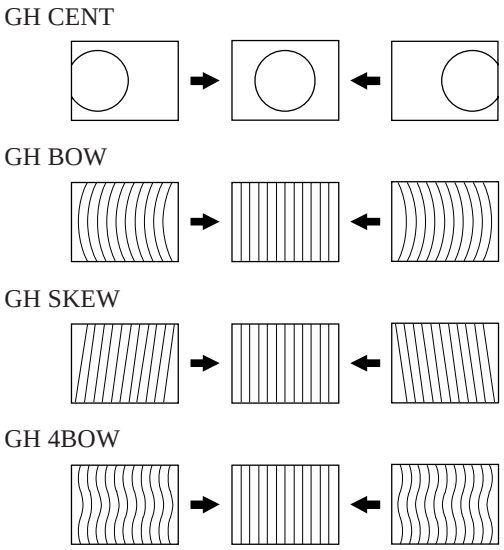
Adjustment ○ : Yes – : No

Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
GSEL	COL SELECT	O	–	–	–	–	–
BSEL	COL SELECT	–	–	–	–	O	–
CENT	CENT	O	O	O	O	O	O
SKEW	SKEW	O	O	O	O	O	O
BOW	BOW	O	O	O	O	O	O
4BOW	4TH BOW	O	–	O	–	O	–
SIZE	SIZE	O	O	O	O	O	O
LIN	LIN	O	O	O	O	O	O
MSIZ	MID SIZE	O	O	O	O	O	O
MLIN	MID LIN	O	–	O	–	O	–
MKEY	MID KEY	–	O	–	O	–	O
KEY	KEY	O	O	O	O	O	O
SSKW	SUB SKEW	O	O	O	O	O	O
MPIN	MID PIN	O	O	O	O	O	O
PIN	PIN	O	O	O	O	O	O
SBOW	SUB BOW	O	O	O	O	O	O
WAVW	WAVE	–	O	–	O	–	O
MBOW	MID BOW	O	–	O	–	O	–
4PIN	4TH PIN	O	O	O	O	O	O
4SBO	4TH SUB BOW	O	–	O	–	O	–
MWAV	MID WAVE	–	–	–	O	–	O

GREEN VERTICAL LINE ADJUSTMENT

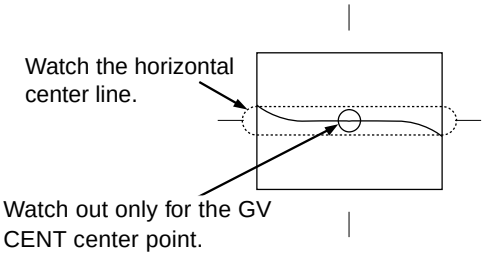
1. Receive the PAL SPCB signal.
2. Carefully watching out for the GH CENT screen center section, adjust GH CENT, GH BOW, GH SKEW.
3. GH 4BOW adjustment. Correct the corner distortion which could not be adjusted with GH BOW.

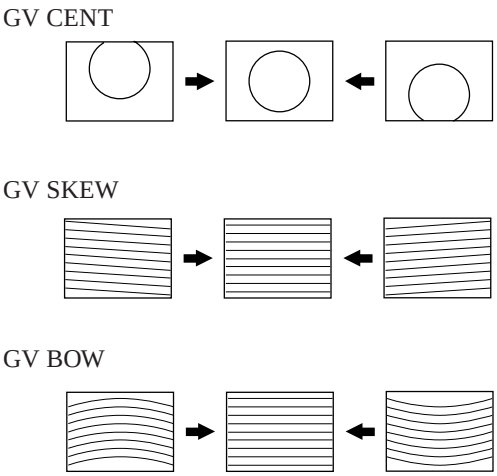




GREEN HORIZONTAL LINE ADJUSTMENT

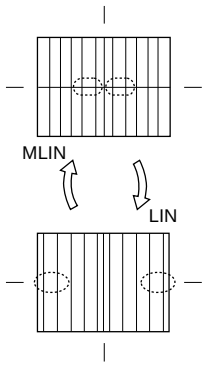
1. Receive the PAL SPCB signal.
2. Finely adjust the center position of the vertical line at the center of the screen with GV CENT.
3. Using GV SKEW and GV BOW, correct the tilt and bow of the horizontal line at the centre of the screen.





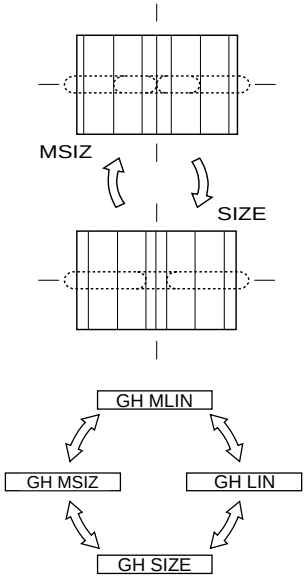
GREEN SIZE AND LINEARITY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Balance the sizes at both sides of the center section of the screen with GH MLIN.
3. Balance the sizes on both end sections of the screen with GH LIN.
4. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right.



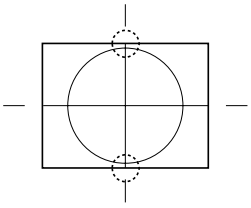
GREEN HORIZONTAL SIZE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust with GH MSIZ, so that the sizes of both edges and centre are equal.
3. Adjust with GH SIZE, so that the horizontal sizes of both edges and centre are equal.
4. While tracking adjust GH MSIZ and GH SIZE so that the space intervals for the horizontal section of the screen are equal.
5. Adjust again if M LIN is changed after GH MSIZ and GH SIZE are complete.



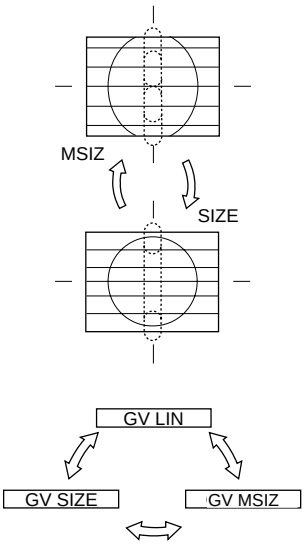
GREEN VERTICAL LINEARITY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.



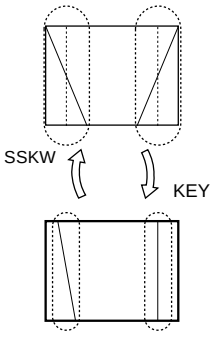
GREEN VERTICAL SIZE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV MSIZ so that the sizes at the top and bottom and centre are equal.
3. Set the vertical size to correct specification.
4. While tracking adjust GV MSIZ and GV SIZE so that the space intervals for the vertical line of the screen are equal, also the vertical size should be within space.
5. Adjust again if GV LIN has been altered after completing the above adjustments.



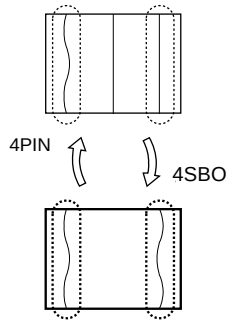
GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH SSKW so that the tilt of the vertical lines at both edges of the screen are symmetrical left and right.
3. Adjust GH KEY so that there is no tilt in the vertical lines at both edges of the screen.
4. While tracking adjust GH KEY and GH SSKW.



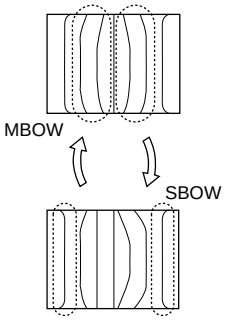
GREEN HORIZONTAL QUATERNARY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH 4PIN, to correct the 4th order distortion.
3. Adjust GH 4SBO to balance and correct the 4th order distortion at both edges of the screen.
4. While tracking adjust GH 4PIN and GH 4SBO.



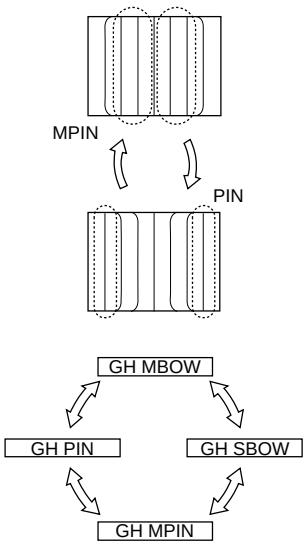
GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH MBOW, so that the pin asymmetry at both sides of the centre section are symmetrical left and right.
3. Adjust GH SBOW so that the bow at both edges of the screen is symmetrical left and right.
4. While tracking adjust GH MBOW and GH SBOW so that the bow of vertical lines over the entire screen is symmetrical.



GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT

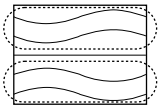
1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH MPIN to correct pin distortion at both edges of the centre section.
3. Use GH PIN to correct pin distortion at both edges of the screen.
4. While tracking adjust GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing.
5. If there is asymmetrical distortion after adjustments, readjust GH MBOW and GH SBOW while tracking.



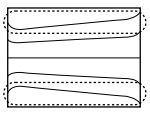
GREEN VERTICAL WAVE (3RD-ORDER) DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Check the screen at the top & bottom, and look for any 2nd or 3rd order waveform distortion of horizontal lines. Correct with GV WAVW.
3. While tracking adjust GV WAVW and GV KEY, if here are any KEY distortion.

GV WAVW



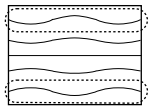
GV KEY



GREEN VERTICAL 4TH ORDER DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. By using GV 4PIN, 4th-Order distortion of the horizontal lines at the top & bottom can be corrected.
   Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust the registration to eliminate any distortion.

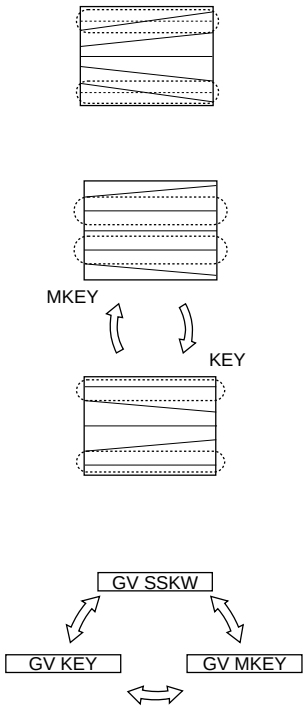
GV 4PIN



GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV SSKW so that the tilt of the horizontal lines at the top and bottom of the screen are symmetrical.
3. Adjust GV MKEY so that there is no tilt for the middle section.
4. Adjust GV KEY so that there is no tilt at the top and bottom of the screen.
5. While tracking adjust GV MKEY and GV KEY, so that there is no tilt over the entire screen.
6. If the tilt is unbalanced after GV MKEY and GV KEY have been adjusted, readjust GV SSKW.

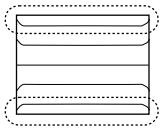
GV SSKW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (2ND-ORDER DISTORTION) ADJUSTMENT

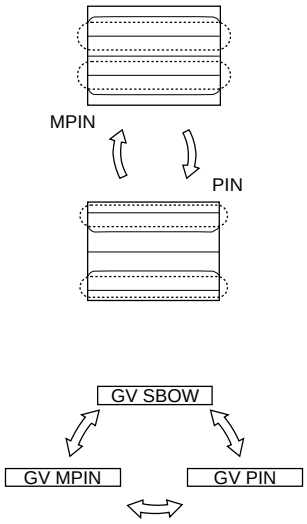
1. Receive the Internal pattern (crosshatch) signal.
2. Correct the asymmetrical pin distortion at the top and bottom of the screen with GV SBOW.

GV SBOW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Using GV MPIN adjust the pin distortion at both edges of the screen and at the centre.
3. Using GV PIN, adjust, so that the horizontal lines at the top & bottom of the screen are straight lines.
4. Adjust GV MPIN & GV PIN so that there is no curve in the horizontal lines on the entire screen.
5. After adjusting the items above, using tracking with GV SBOW. GV MPIN, and GV PIN to correct the entire screen.



RED REGISTRATION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
   GH GSEL = "00" (Green + Red)
2. Adjust so that the red lines lay on the green lines.
   Adjust, using the same procedure as the green sub item adjustment outline above.

Note : Main registration correction should not be while adjusting Red adjustment.
BEWARE : Not to change green sub items.
It' s easily done by mistake.

BLUE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
   BH BSEL = "00" (Blue + Green)
2. Adjust so that the blue lines lay on the green lines.
   Adjust, using the same procedure as the green sub item adjustment outline above.

Note : Main registration correction should not be while adjusting Blue adjustment.
BEWARE : Not to change green and red sub items.
It' s easily done by mistake.

REGISTRATION DATA WRITE

1. After finish all PAL registration adjustments, write PAL registration data by pressing form the appropriate buttons.

   DATA WRITE : Press "(MUTE)" + "⓪"

DATA COPY FROM PAL TO NTSC

1. Copy PAL data to NTSC data by pressing form the appropriate buttons.

   DATA COPY : Press "(ON SCREEN DISPLAY)" + "⓪"
2. Press "" + "⓪" to copy data from PAL to NTSC.
   If you press "" ,then it appears "Copy 5060" to display.

∗ Make sure input signal is PAL. If input signal is NTSC and do this process, NTSC data are copied to PAL data !

4 : 3 MODE ADJUSTMENT

1. Receive the PAL SPCB signal.
2. Select 4 : 3 mode.
   Press "(blue key)" : 16 : 9 ➧ 4 : 3
3. 4 : 3 mode adjustment are the same as 16 : 9 mode.

AUTO CONVERGENCE PRESET

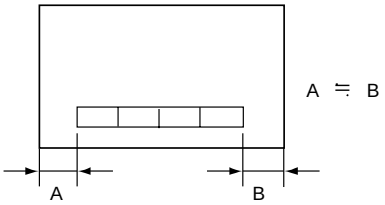
1. Set in the TT mode.
2. Press " (AUTO CONVERGENCE)" button on front panel.
3. Confirm convergence is the same condition as before.
4. Press "⓪" + "⓪" button on commander to exit from the TT mode.
   TT00 : Exit from the TT mode

6-3. HORIZONTAL POSITION ADJUSTMENT

1. Receive the PAL SPCB signal.
2. Select 4 : 3 mode.
   Press "(blue key)" : 16 : 9 ➧ 4 : 3
3. Set in the service mode and select "Geometry" .
4. Adjust "H position" so that the picture is displayed in the horizontal center of screen.

6-4. TEXT POSITION ADJUSTMENT

1. Receive the RF signal with teletext.
   Signal must have burst. Select full page text.
2. Set in the TT mode.
3. Press "①" + "④" (41PX1/41PX1K) or "⑦" + "④" (41PX1R) button on commander.
   TT14 : TEXT H POSITION adjustment (41PX1/41PX1K)
   TT74 : TEXT H POSITION adjustment (41PX1R)
4. Adjust H position of text.
5. Push "(TV MODE)" to exit.



With the joystick :

◀ (Move the Left)
▶ (Move the Right)

6-5. WHITE BALANCE ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in the service mode and select “Picture Adjustment”.
3. Adjust “Sub Brightness” so that the signal 10 IRE section barely glows.
4. Receive the All-White pattern signal.
5. Adjust the white balance with “Green Cutoff” and “Blue Cutoff”.
6. Adjust “Sub Brightness” so that the signal 100 IRE section barely glows.
7. Adjust the white balance with “Green Drive” and “Blue Drive”.
8. Repeatedly adjust the white balance for the minimum and maximum picture setting.

6-6. SUB BRIGHTNESS ADJUSTMENT

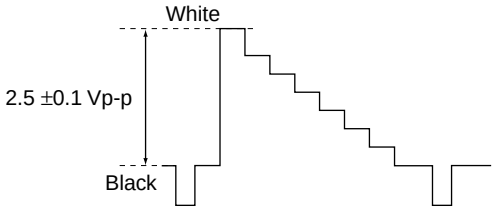
1. Receive the Monoscope signal.
2. Set in the TT mode.
3. Press “①” + “③” (41PX1/41PX1K) or “②” + “③” (41PX1R) button on commander.
   TT13 : SUB BRIGHTNESS adjustment (41PX1/41PX1K)
   TT23 : SUB BRIGHTNESS adjustment (41PX1R)
4. Adjust sub brightness 0 IRE and 10 IRE border just appear point by “◄ ” or “►” key of commander.

   With the joystick ◁▷ :
   ◄ (Down)
   ► (Up)

5. Decrease 3 steps from adjusted point.

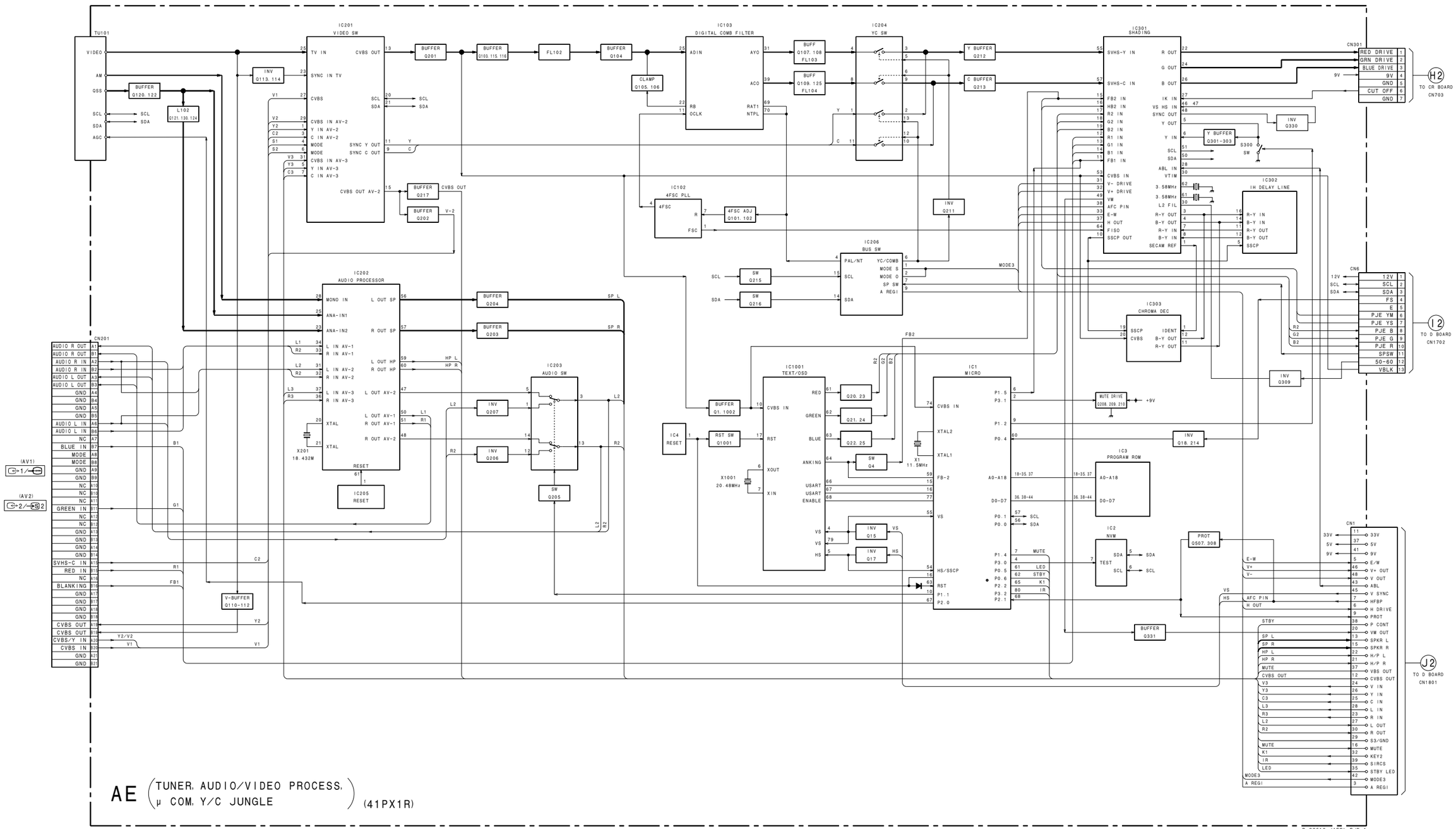
6-7. SUB CONTRAST ADJUSTMENT (A or AE Board)

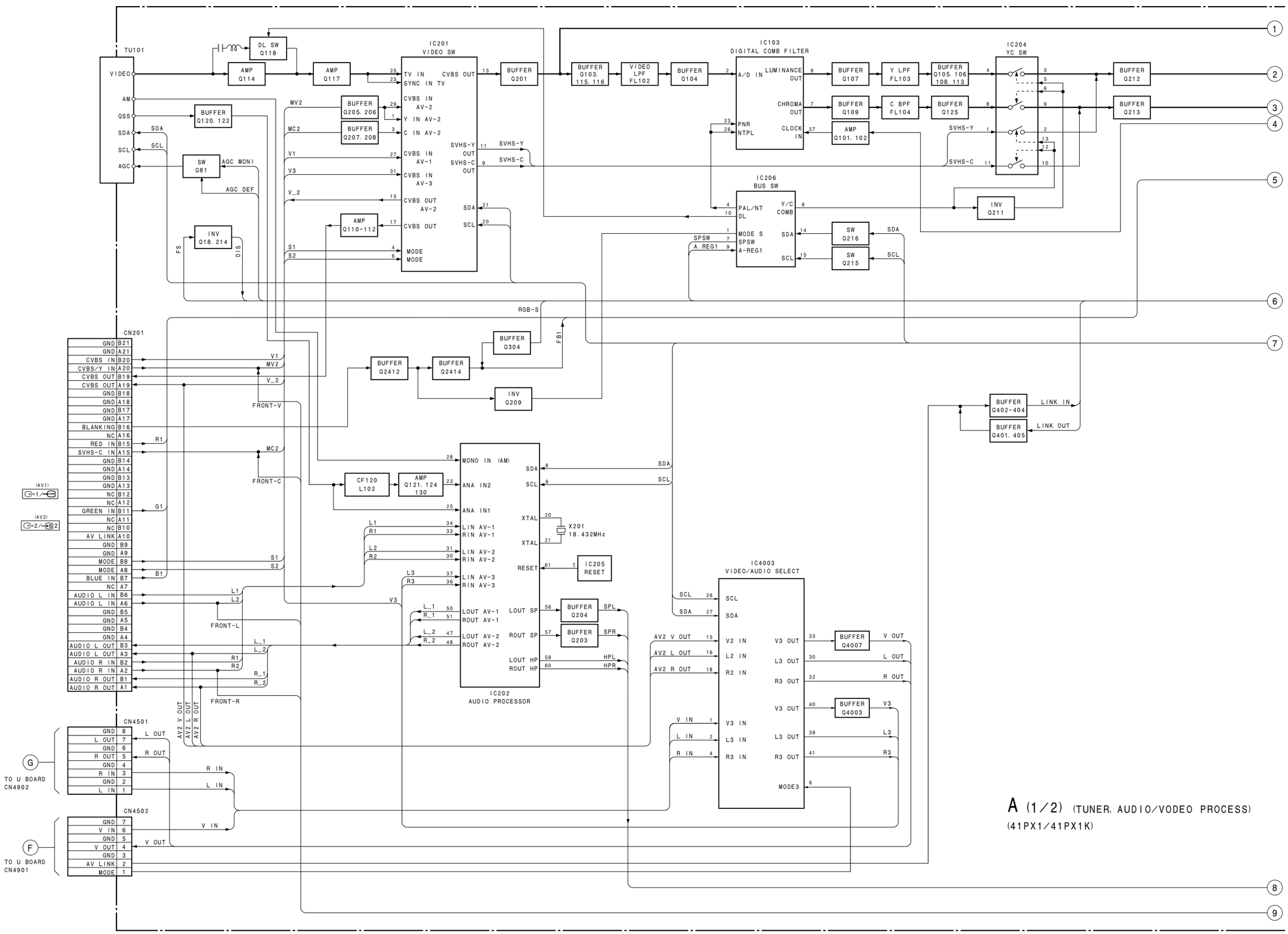
1. Receive the PAL video color bar signal.
   White 100%
   1 Vp-p / 75 Ω terminated.
2. Connect the external power supply to “ABL” and ground.
   A board CN1 ⑱ pin (ABL) : 41PX1/41PX1K
   AE board CN1 ㊸ pin (ABL) : 41PX1R
3. Connect the oscilloscope between CN301 ① pin (RED DRIVE) and ground.
4. Set PICTURE to maximum and COLOUR to minimum.
5. Set in the service mode and select “Picture Adjustment”.
6. Supply DC 3.0 V from external power supply to “ABL”.
7. Adjust “Sub Contrast” so that the level between black and white is 2.5 ±0.1 Vp-p .
8. Press “🔇 (MUTE)” + “⓪” button to write the data.



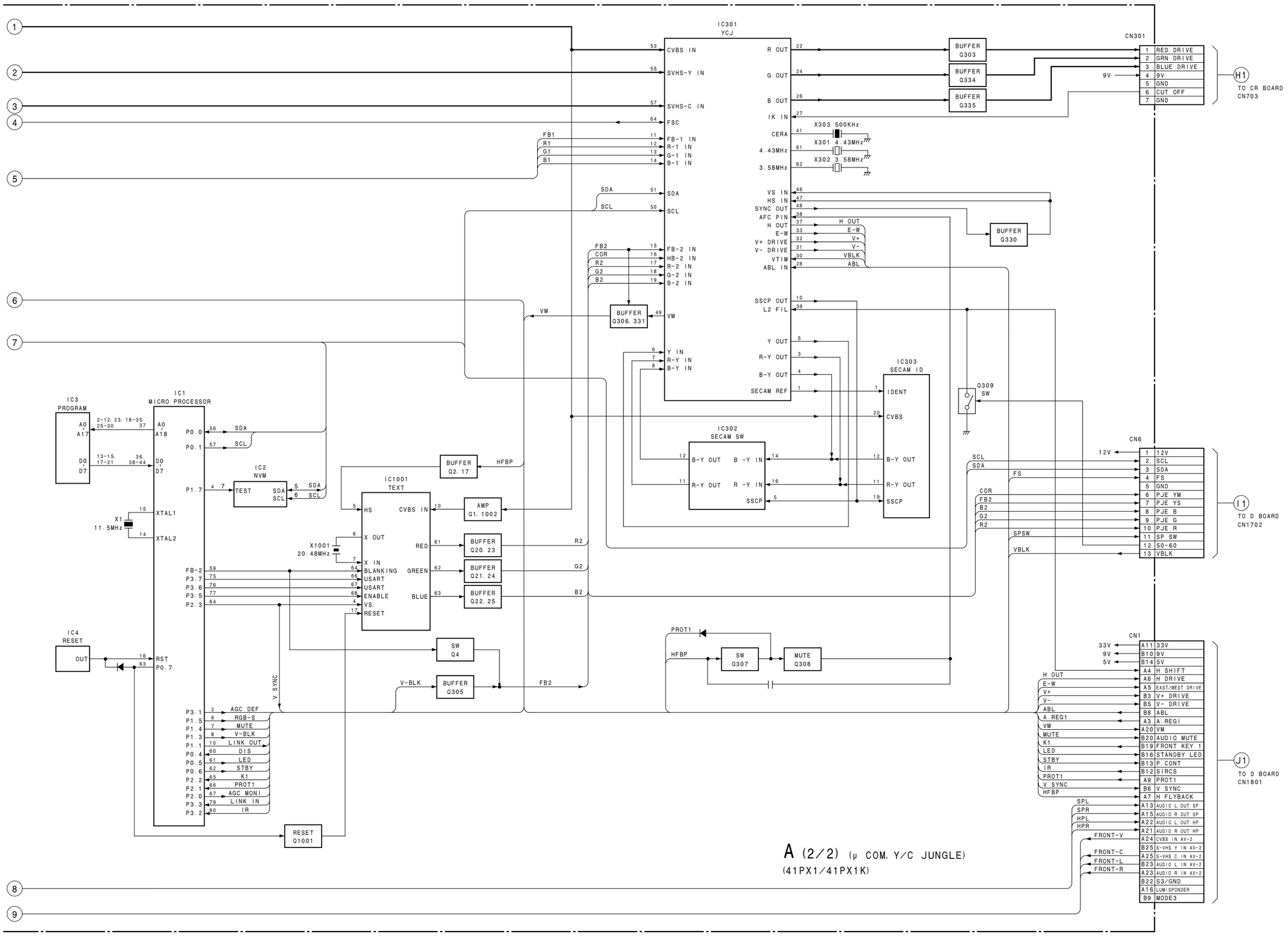
SECTION 7
DIAGRAMS

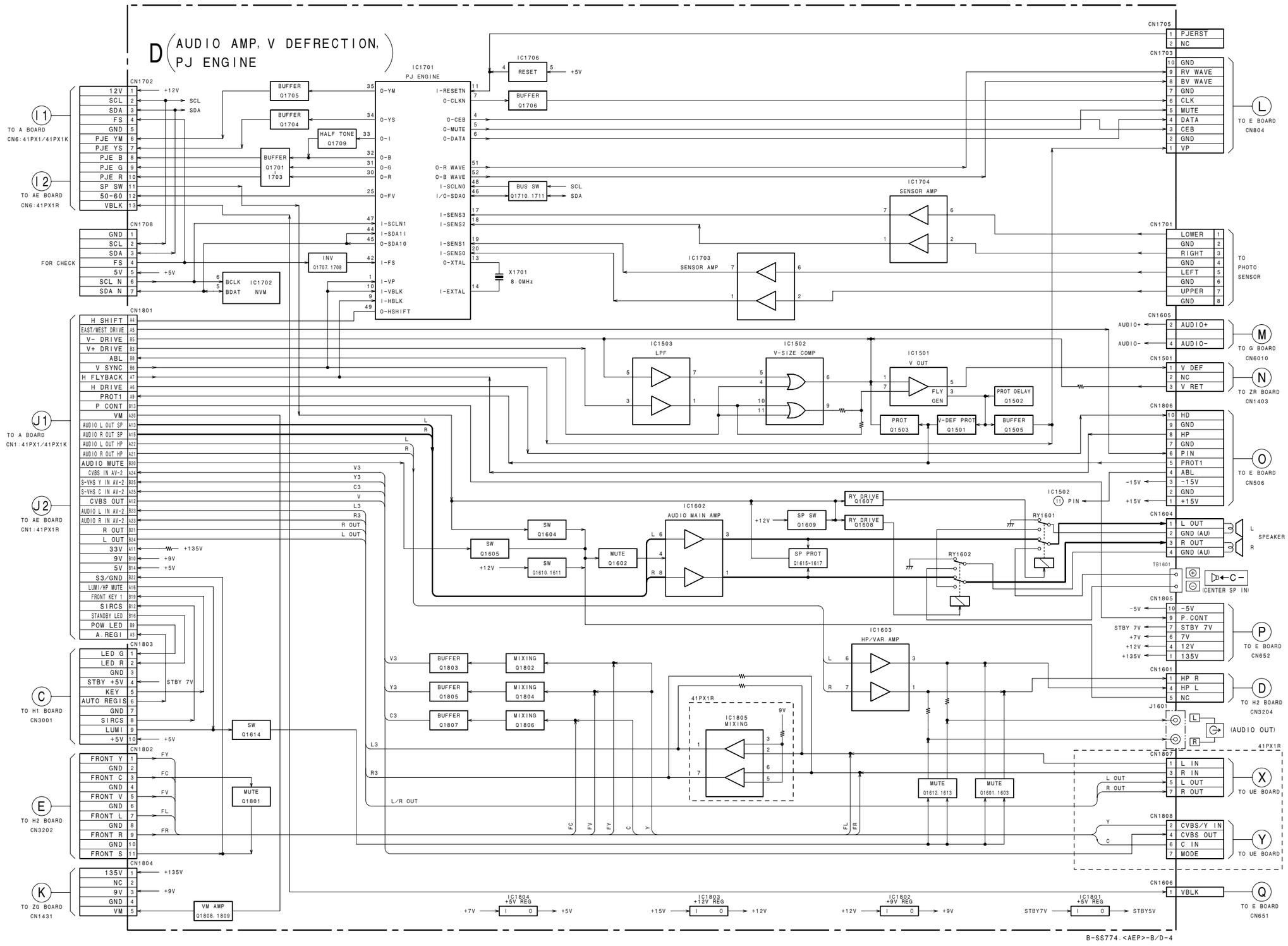
7-1. BLOCK DIAGRAMS

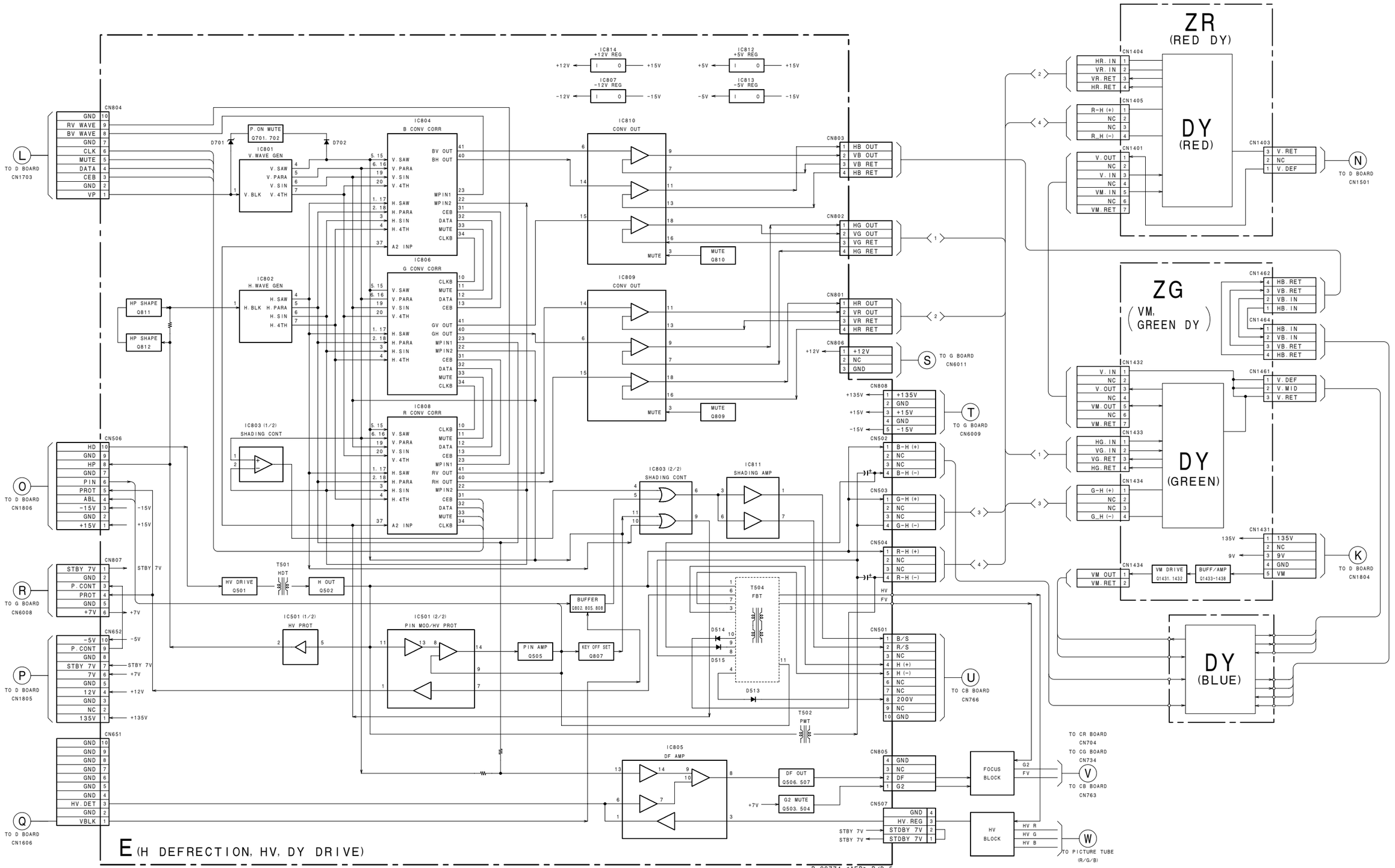


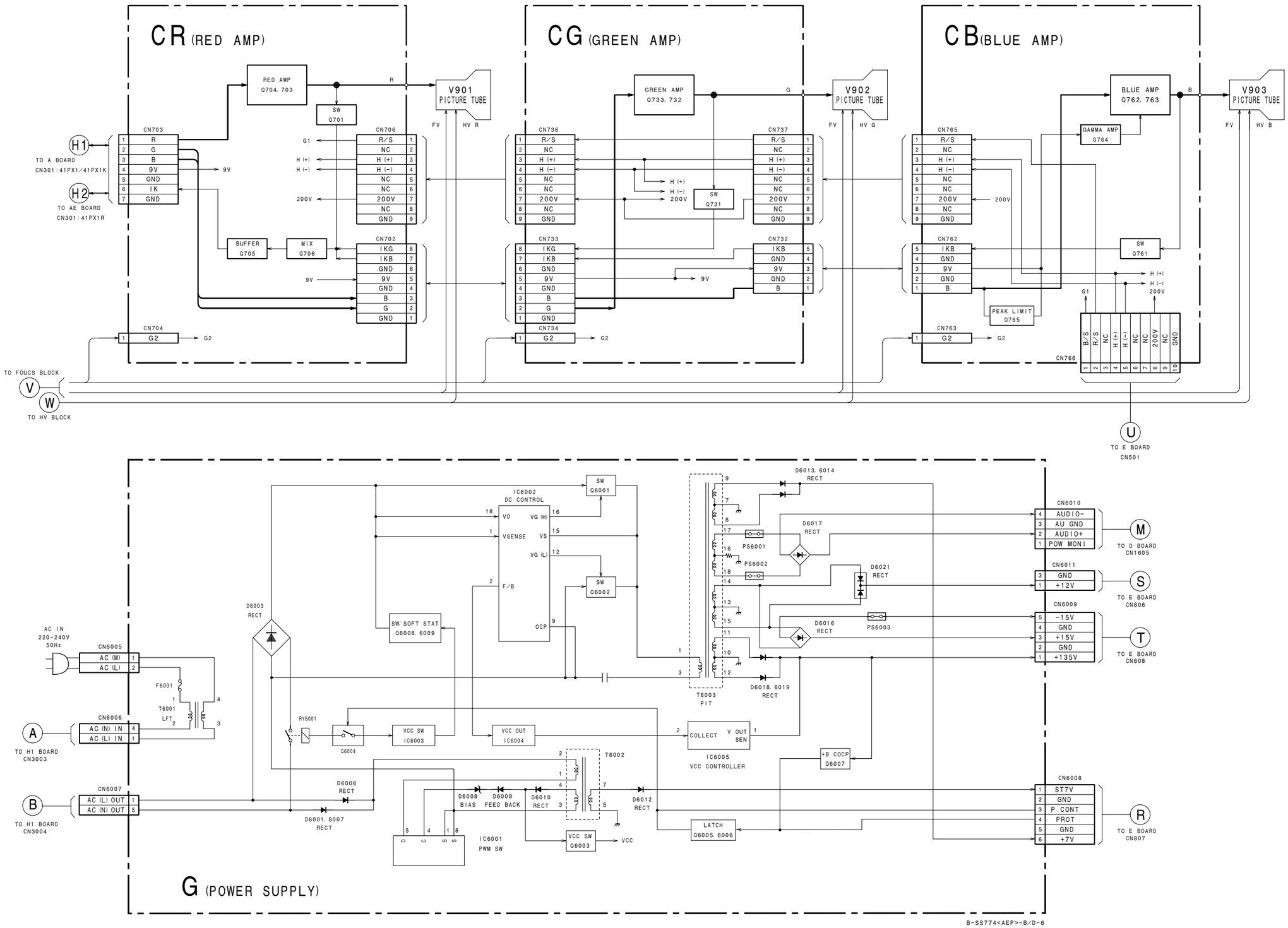


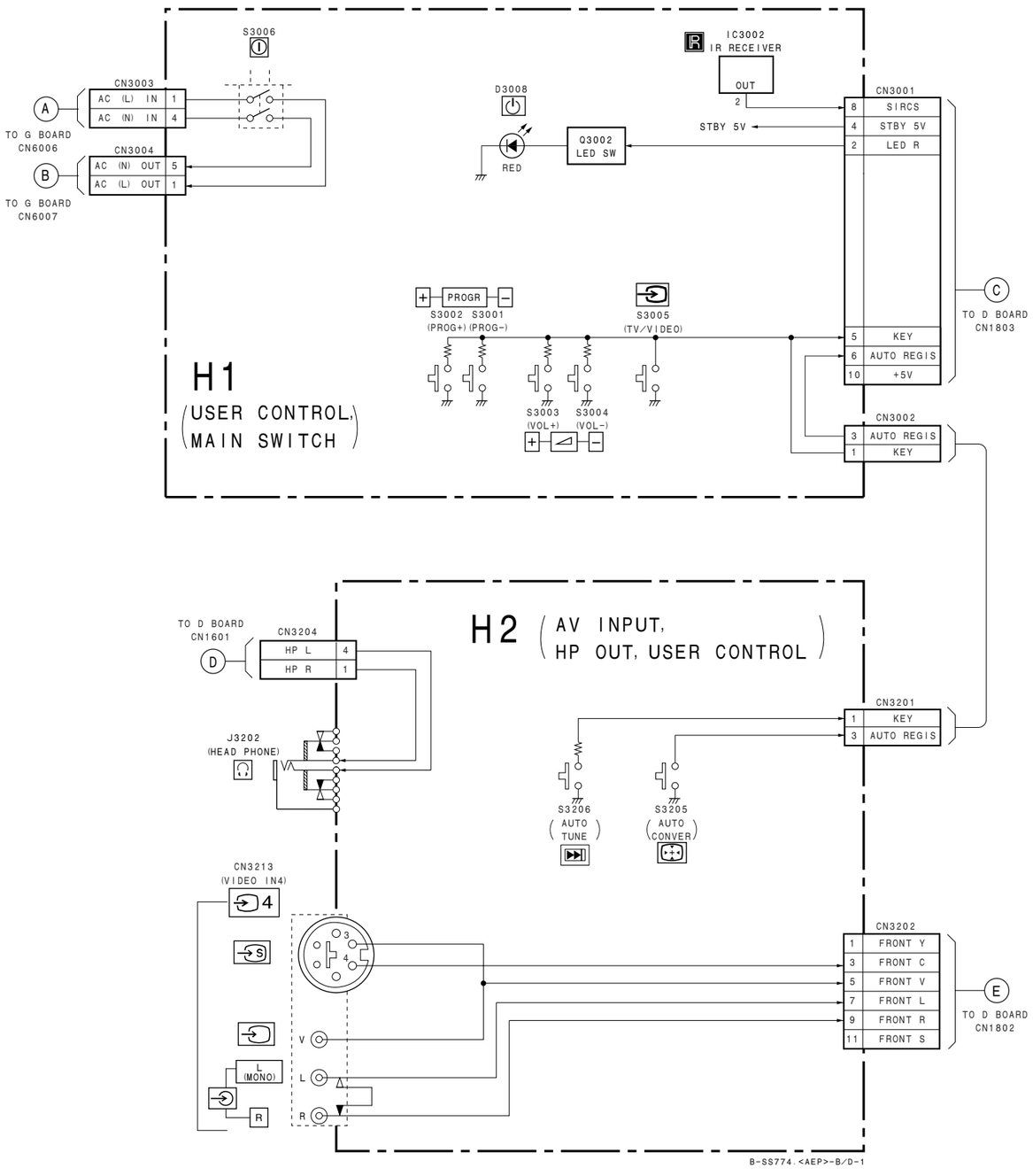
A (1/2) (TUNER, AUDIO/VODEO PROCESS)
(41PX1/41PX1K)


IC301
YCJ
CVBS IN
SVHS-Y IN
SVHS-C IN
FSC
FB-1 IN
R-1 IN
G-1 IN
B-1 IN
SDA
SCL
FB-2 IN
HB-2 IN
R-2 IN
G-2 IN
B-2 IN
VM
Y IN
R-Y IN
B-Y IN
R OUT
G OUT
B OUT
IK IN
CERA
4.43MHz
3.58MHz
VS IN
HS IN
SYNC OUT
AFC PIN
H OUT
E-W
V+ DRIVE
V- DRIVE
VTIM
ABL IN
SSCP OUT
L2 FIL
Y OUT
R-Y OUT
B-Y OUT
SECAM REF
X303 500KHz
X301 4.43MHz
X302 3.58MHz
BUFFER Q303
BUFFER Q334
BUFFER Q335
BUFFER Q330
BUFFER Q306. 331
CN301
RED DRIVE
GRN DRIVE
BLUE DRIVE
9V
GND
CUT OFF
GND
TO CR BOARD CN703
IC303
SECAM ID
IDENT
CVBS
Q309
SW
IC302
SECAM SW
B-Y OUT B -Y IN
R-Y OUT R -Y IN
SSCP
IC3
PROGRAM
IC1
MICRO PROCESSOR
IC2
NVM
TEST
IC1001
TEXT
HS
X OUT
X IN
BLANKING
USART
USART
ENABLE
VS
RESET
CVBS IN
RED
GREEN
BLUE
X1
11.5MHz
X1001
20.48MHz
XTAL1
XTAL2
IC4
RESET
RST
P0.7
V SYNC
V-BLK
HFBP
BUFFER Q2. 17
AMP Q1. 1002
BUFFER Q20. 23
BUFFER Q21. 24
BUFFER Q22. 25
SW Q4
BUFFER Q305
SW Q307
MUTE Q308
PROT1
FB2
R2
G2
B2
AGC DEF
RGB-S
MUTE
V-BLK
LINK OUT
DIS
LED
STBY
K1
PROT1
AGC MONI
LINK IN
IR
RESET Q1001
CN6
12V
SCL
SDA
FS
GND
PJE YM
PJE YS
PJE B
PJE G
PJE R
SP SW
50-60
VBLK
TO D BOARD CN1702
CN1
33V
9V
5V
H SHIFT
H DRIVE
EAST/WEST DRIVE
V+ DRIVE
V- DRIVE
ABL
A.REGI
VM
AUDIO MUTE
FRONT KEY 1
STANDBY LED
P.CONT
SIRCS
PROT1
V SYNC
H FLYBACK
AUDIO L OUT SP
AUDIO R OUT SP
AUDIO L OUT HP
AUDIO R OUT HP
CVBS IN AV-2
S-VHS Y IN AV-2
S-VHS C IN AV-2
AUDIO L IN AV-2
AUDIO R IN AV-2
S3/GND
LUMISPONDER
MODE3
TO D BOARD CN1801
A (2/2) (μ COM, Y/C JUNGLE)
(41PX1/41PX1K)
B-SS774.<AEP>-B/D-3


D AUDIO AMP, V DEFRECTION, PJ ENGINE
IC1701 PJ ENGINE
CN1702
12V 1 +12V
SCL 2 SCL
SDA 3 SDA
FS 4
GND 5
PJE YM 6
PJE YS 7
PJE B 8
PJE G 9
PJE R 10
SP SW 11
50-60 12
VBLK 13
I1 TO A BOARD CN6:41PX1/41PX1K
I2 TO AE BOARD CN6:41PX1R
CN1708
GND 1
SCL 2
SDA 3
FS 4
5V 5 +5V
SCL N 6
SDA N 7
FOR CHECK
BUFFER Q1705
BUFFER Q1704
HALF TONE Q1709
BUFFER Q1701 1703
INV Q1707.1708
BCLK IC1702 NVM
BDAT NVM
O-YM
O-YS
O-I
O-B
O-G
O-R
O-FV
I-SCLN1
I-SDA1I
O-SDA10
I-FS
I-VP
I-VBLK
I-HBLK
O-HSHIFT
I-RESETN
O-CLKN
O-CEB
O-MUTE
O-DATA
O-R WAVE
O-B WAVE
I-SCLN0
I/O-SDA0
I-SENS3
I-SENS2
I-SENS1
I-SENS0
O-XTAL
I-EXTAL
IC1706 RESET +5V
BUFFER Q1706
BUS SW Q1710.1711 SCL SDA
X1701 8.0MHz
IC1704 SENSOR AMP
IC1703 SENSOR AMP
CN1705
1 PJERST
2 NC
CN1703
10 GND
9 RV WAVE
8 BV WAVE
7 GND
6 CLK
5 MUTE
4 DATA
3 CEB
2 GND
1 VP
L TO E BOARD CN804
CN1701
LOWER 1
GND 2
RIGHT 3
GND 4
LEFT 5
GND 6
UPPER 7
GND 8
TO PHOTO SENSOR
CN1605
AUDIO+ 2 AUDIO+
AUDIO- 4 AUDIO-
M TO G BOARD CN6010
CN1501
1 V DEF
2 NC
3 V RET
N TO ZR BOARD CN1403
CN1806
10 HD
9 GND
8 HP
7 GND
6 PIN
5 PROT1
4 ABL
3 -15V
2 GND
1 +15V
O TO E BOARD CN506
-15V
+15V
IC1502 (11) PIN
CN1604
1 L OUT
2 GND (AU)
3 R OUT
4 GND (AU)
L SPEAKER R
RY1601
RY1602
T81601 (CENTER SP IN)
CN1805
-5V 10 -5V
9 P.CONT
STBY 7V 7 STBY 7V
+7V 6 7V
+12V 4 12V
+135V 1 135V
P TO E BOARD CN652
CN1601
1 HP R
4 HP L
5 NC
D TO H2 BOARD CN3204
J1601 (AUDIO OUT)
41PX1R
CN1807
1 L IN
3 R IN
5 L OUT
7 R OUT
X TO UE BOARD
L OUT
R OUT
CN1808
2 CVBS/Y IN
4 CVBS OUT
6 C IN
7 MODE
Y TO UE BOARD
Y
C
CN1606
1 VBLK
Q TO E BOARD CN651
IC1503 LPF
IC1502 V-SIZE COMP
IC1501 V OUT
FLY GEN
PROT DELAY Q1502
PROT Q1503
V-DEF PROT Q1501
BUFFER Q1505
IC1602 AUDIO MAIN AMP
SW Q1604
SW Q1605
SW Q1610.1611
MUTE Q1602
+12V
SP SW Q1609
RY DRIVE Q1607
RY DRIVE Q1608
SP PROT Q1615-1617
CN1801
H SHIFT A4
EAST/WEST DRIVE A5
V- DRIVE B5
V+ DRIVE B3
ABL B8
V SYNC B6
H FLYBACK A7
H DRIVE A6
PROT1 A9
P CONT B13
VM A20
AUDIO L OUT SP A13
AUDIO R OUT SP A15
AUDIO L OUT HP A22
AUDIO R OUT HP A21
AUDIO MUTE B20
CVBS IN AV-2 A24
S-VHS Y IN AV-2 B25
S-VHS C IN AV-2 A25
CVBS OUT A12
AUDIO L IN AV-2 B23
AUDIO R IN AV-2 A23
R OUT B21
L OUT B24
33V A11 +135V
9V B10 +9V
5V B14 +5V
S3/GND B22
LUMI/HP MUTE A16
FRONT KEY 1 B19
SIRCS B12
STANDBY LED B16
POW LED B9
A.REGI A3
J1 TO A BOARD CN1:41PX1/41PX1K
J2 TO AE BOARD CN1:41PX1R
CN1803
LED G 1
LED R 2
GND 3
STBY +5V 4 STBY 7V
KEY 5
AUTO REGIS 6
GND 7
SIRCS 8
LUMI 9
+5V 10 +5V
C TO H1 BOARD CN3001
SW Q1614
CN1802
FRONT Y 1 FY
GND 2
FRONT C 3 FC
GND 4
FRONT V 5 FV
GND 6
FRONT L 7 FL
GND 8
FRONT R 9 FR
GND 10
FRONT S 11
MUTE Q1801
E TO H2 BOARD CN3202
CN1804
135V 1 +135V
NC 2
9V 3 +9V
GND 4
VM 5
K TO ZG BOARD CN1431
VM AMP Q1808.1809
V3
Y3
C3
V
L3
R3
R OUT
L OUT
L/R OUT
BUFFER Q1803
BUFFER Q1805
BUFFER Q1807
MIXING Q1802
MIXING Q1804
MIXING Q1806
IC1603 HP/VAR AMP
41PX1R
IC1805 MIXING
9V
MUTE Q1612.1613
MUTE Q1601.1603
FC
FV
FY
C
Y
FL
FR
IC1804 +5V REG +7V +5V
IC1803 +12V REG +15V +12V
IC1802 +9V REG +12V +9V
IC1801 +5V REG STBY7V STBY5V
B-SS774.<AEP>-B/D-4

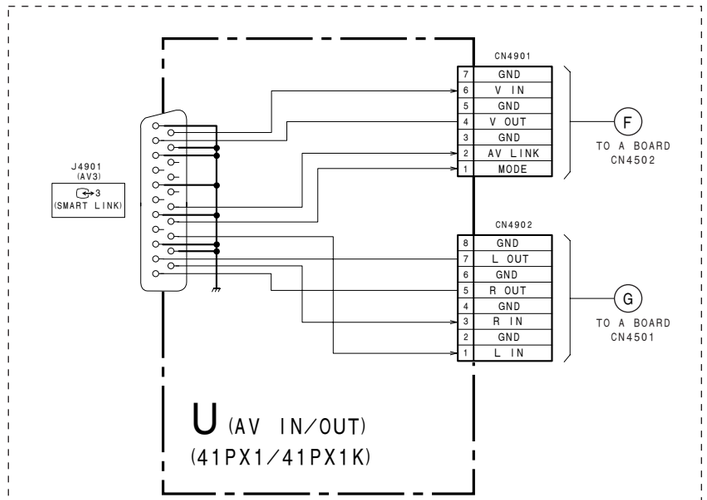

ZR
(RED DY)
DY
(RED)
ZG
(VM, GREEN DY)
DY
(GREEN)
DY
(BLUE)
IC814 +12V REG
IC812 +5V REG
IC807 -12V REG
IC813 -5V REG
IC804 B CONV CORR
IC806 G CONV CORR
IC808 R CONV CORR
IC810 CONV OUT
IC809 CONV OUT
IC801 V.WAVE GEN
IC802 H.WAVE GEN
IC803 (1/2) SHADING CONT
IC803 (2/2) SHADING CONT
IC811 SHADING AMP
IC805 DF AMP
IC501 (1/2) HV PROT
IC501 (2/2) PIN MOD/HV PROT
CN804
CN506
CN807
CN652
CN651
CN803
CN802
CN801
CN806
CN808
CN502
CN503
CN504
CN501
CN805
CN507
CN1404
CN1405
CN1401
CN1403
CN1462
CN1464
CN1432
CN1461
CN1433
CN1434
CN1431
T501 HDT
T502 PMT
T504 FBT
P.ON MUTE Q701, 702
HP SHAPE Q811
HP SHAPE Q812
HV DRIVE Q501
H OUT Q502
PIN AMP Q505
KEY OFF SET Q807
BUFFER Q802, 805, 808
MUTE Q810
MUTE Q809
DF OUT Q506, 507
G2 MUTE Q503, 504
VM DRIVE Q1431, 1432
BUFF/AMP Q1433-1438
FOCUS BLOCK
HV BLOCK
TO D BOARD CN1703
TO D BOARD CN1806
TO G BOARD CN6008
TO D BOARD CN1805
TO D BOARD CN1606
TO G BOARD CN6011
TO G BOARD CN6009
TO CB BOARD CN766
TO D BOARD CN1501
TO D BOARD CN1804
TO CR BOARD CN704
TO CG BOARD CN734
TO CB BOARD CN763
TO PICTURE TUBE (R/G/B)
E (H DEFRECTION, HV, DY DRIVE)
B-SS774.<AEP>-B/D-5


CR (RED AMP)
CG (GREEN AMP)
CB (BLUE AMP)
G (POWER SUPPLY)
RED AMP Q704, 703
GREEN AMP Q733, 732
BLUE AMP Q762, 763
V901 PICTURE TUBE
V902 PICTURE TUBE
V903 PICTURE TUBE
SW Q701
SW Q731
SW Q761
SW Q6001
SW Q6002
BUFFER Q705
MIX Q706
GAMMA AMP Q764
PEAK LIMIT Q765
CN703
CN706
CN702
CN704
CN736
CN737
CN733
CN732
CN734
CN765
CN762
CN763
CN766
H1
TO A BOARD
CN301 : 41PX1/41PX1K
H2
TO AE BOARD
CN301 : 41PX1R
TO FOUCS BLOCK
V
W
TO HV BLOCK
U
TO E BOARD
CN501
IC6002
DC CONTROL
IC6001
PWM SW
IC6005
VCC CONTROLLER
SW. SOFT STAT Q6008, 6009
LATCH Q6005, 6006
VCC SW Q6003
VCC SW IC6003
VCC OUT IC6004
+B OCCP Q6007
Q6004
RY6001
F6001
T6001 LFT
T6003 PIT
T6002
D6003 RECT
D6006 RECT
D6001, 6007 RECT
D6008 BIAS
D6009 FEED BACK
D6010 RECT
D6012 RECT
D6013, 6014 RECT
D6016 RECT
D6017 RECT
D6018, 6019 RECT
D6021 RECT
PS6001
PS6002
PS6003
CN6005
CN6006
CN6007
CN6010
CN6011
CN6009
CN6008
TO H1 BOARD CN3003
TO H1 BOARD CN3004
TO D BOARD CN1605
TO E BOARD CN806
TO E BOARD CN808
TO E BOARD CN807
AC IN 220-240V 50Hz
B-SS774<AEP>-B/D-6

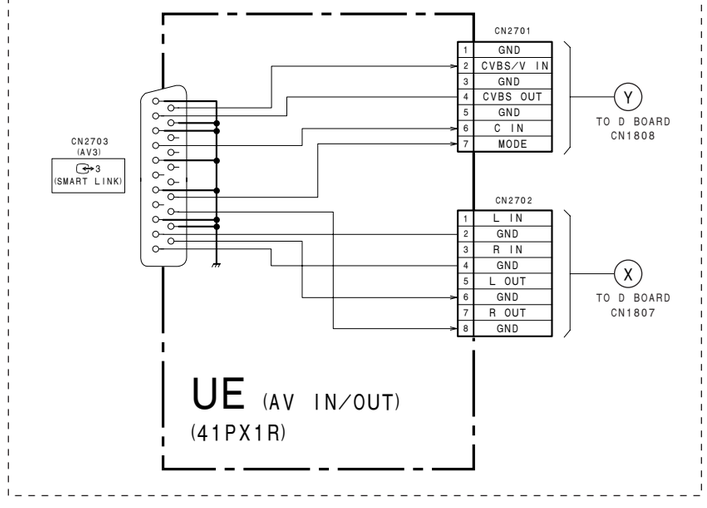


B-SS774.<AEP>-B/D-1

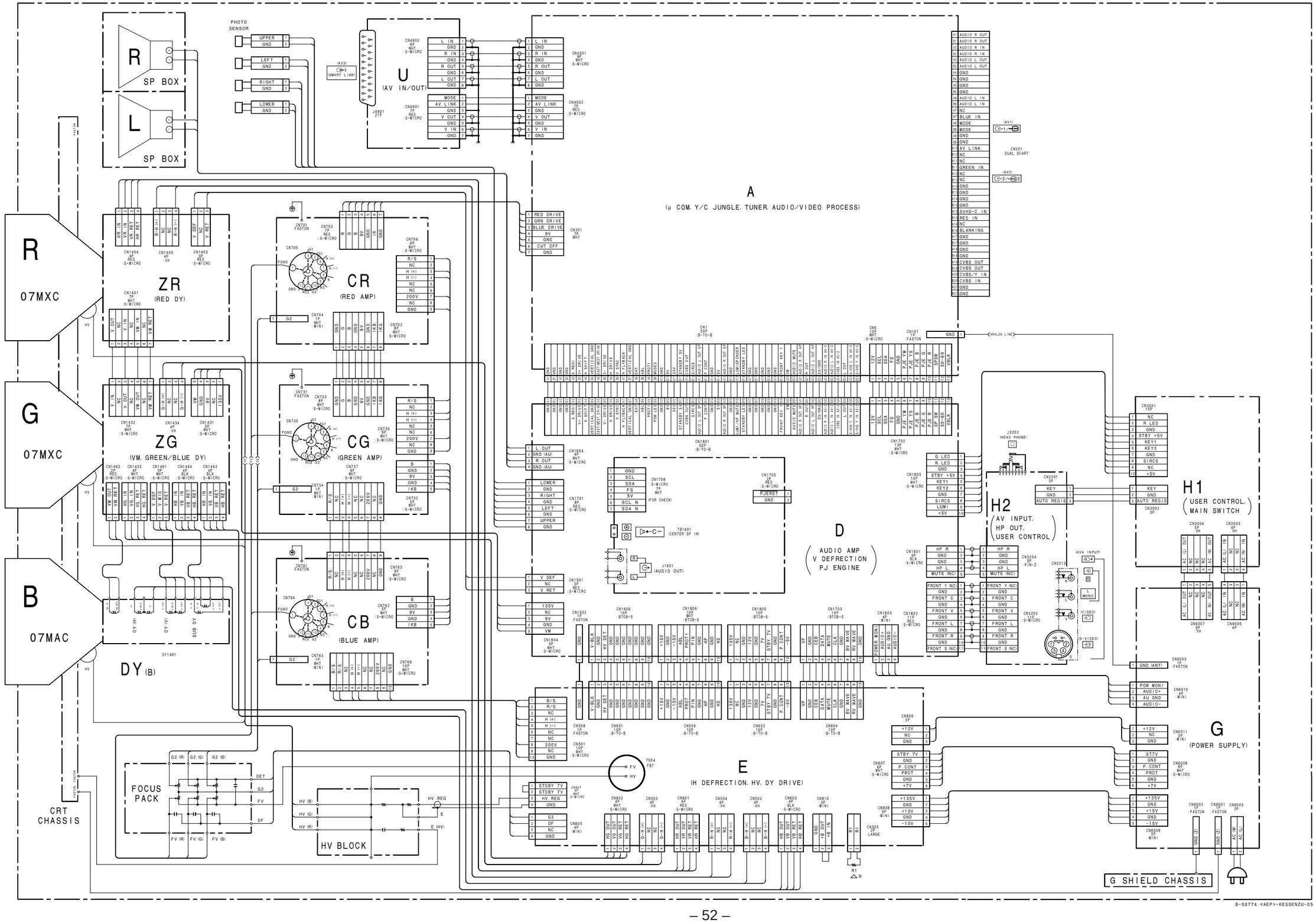
41PX1/41PX1K



41PX1R

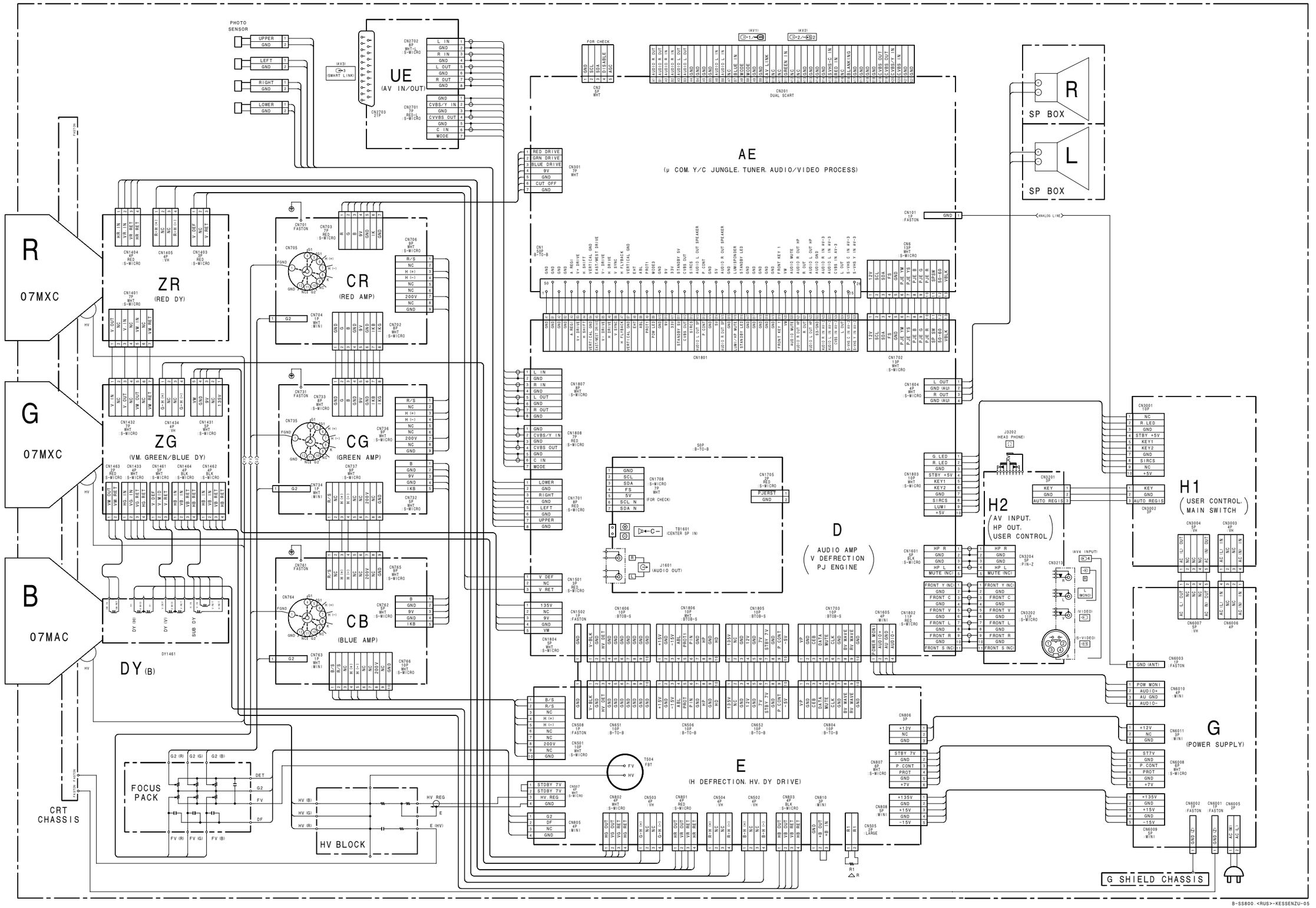


7-2. FRAME SCHEMATIC DIAGRAM (1) (41PX1/41PX1K)



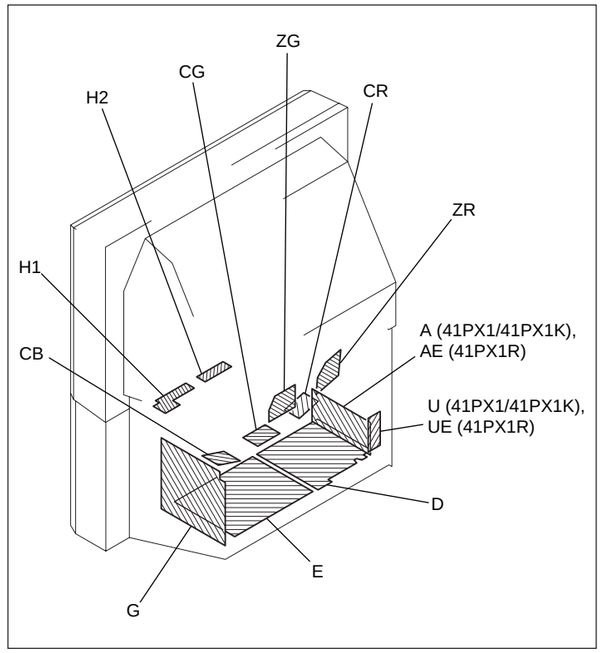
B-SS774.<AEP>-KESSENZU-05

FRAME SCHEMATIC DIAGRAM (2) (41PX1R)



B-SS800..<RUS>-KESSENZU-05

7-3. CIRCUIT BOARDS LOCATION



7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- The parts marked "#" on schematic diagrams are not mounted.
- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ∗ : Can not be measured.
- NO MARK: Common
- < >: SECAM
- ( ) : NTSC 3.58 MHz
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 31)
- When replacing the part in below table, be sure to perform the related adjustment.

Part Replaced (⋈)
R1

Part Replaced (◪)					
E Board	C515,	C516,	C554,	D504,	D507,
	L506,	Q502,	R1,	R514,	R516,
	R517,	T502,	T504 (FBT)		
G Board	IC6005				

- Divided schematic diagram

  Schematic diagrams of A, AE, D, and E boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each line.

  For example, [**TO A1/5,A2/5_1**] means the line is connected to Ref. No. 1 of A (1/5) and A (2/5) schematic diagrams.

TO A1/5,A2/5_1

Ref. No.
Name of divided schematic diagram

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

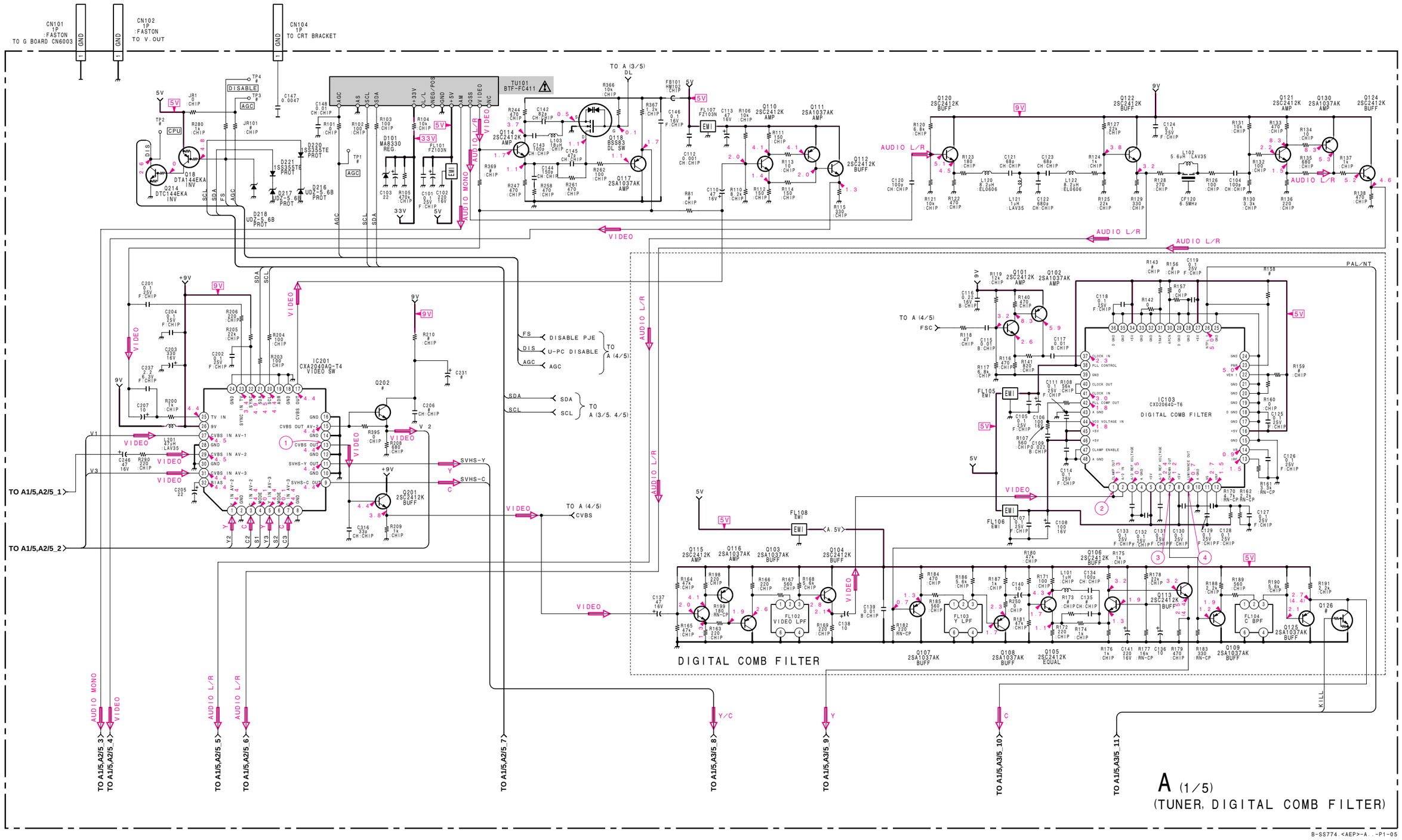
Terminal name of semiconductors in silk screen printed circuit (∗)

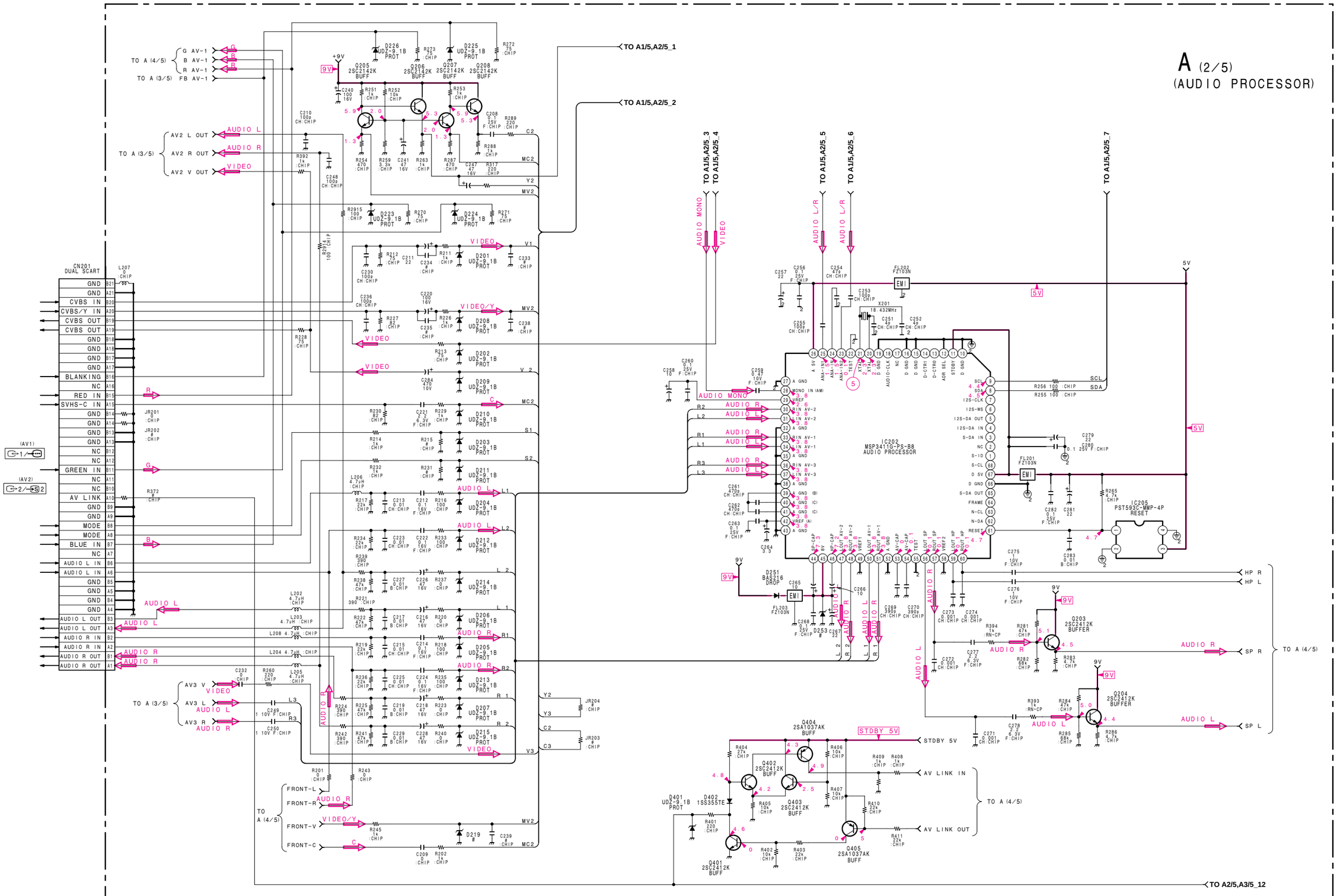
	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base Emitter	
②	Transistor	—	Collector / Base Emitter	
③	Diode	⊐	Cathode – Anode	
④	Diode	T	Cathode / Anode (NC)	
⑤	Diode	—	Cathode / Anode (NC)	
⑥	Diode	T	Common / Anode Cathode	
⑦	Diode	—	Common / Anode Cathode	
⑧	Diode	T	Common / Anode Anode	
⑨	Diode	—	Common / Anode Anode	
⑩	Diode	T	Common / Cathode Cathode	
⑪	Diode	—	Common / Cathode Cathode	
⑫	Diode	|	Anode Cathode / Anode Anode / Cathode Anode	
⑬	Transistor (FET)	|	Drain Source / Gate	
⑭	Transistor (FET)	⊢	Drain Source / Gate	
⑮	Transistor (FET)	|	□ Source □ Drain □ Gate	
⑯	Transistor	|	□ Emitter □ Collector □ Base	
⑰	Transistor	⊣⊢	C2 B1 E1 / E2 B2 C1	
⑱	Transistor	⊣⊢	C1 B2 E2 / E1 B1 C2	
⑲	Transistor	—	C1 B2 E2 / E1 B1 C2	
⑳	Transistor	—	C1 B2 E2 / E1 B1 C2	
㉑	Transistor	—	E2 B1 E1 / C2 C1(B2)	
㉒	Transistor	—	(B2) B1 E1 E2 / C1 C2	
㉓	Transistor	—	(B2) E2 E1 B1 / C2 C1	
–	Discrete semiconductot			

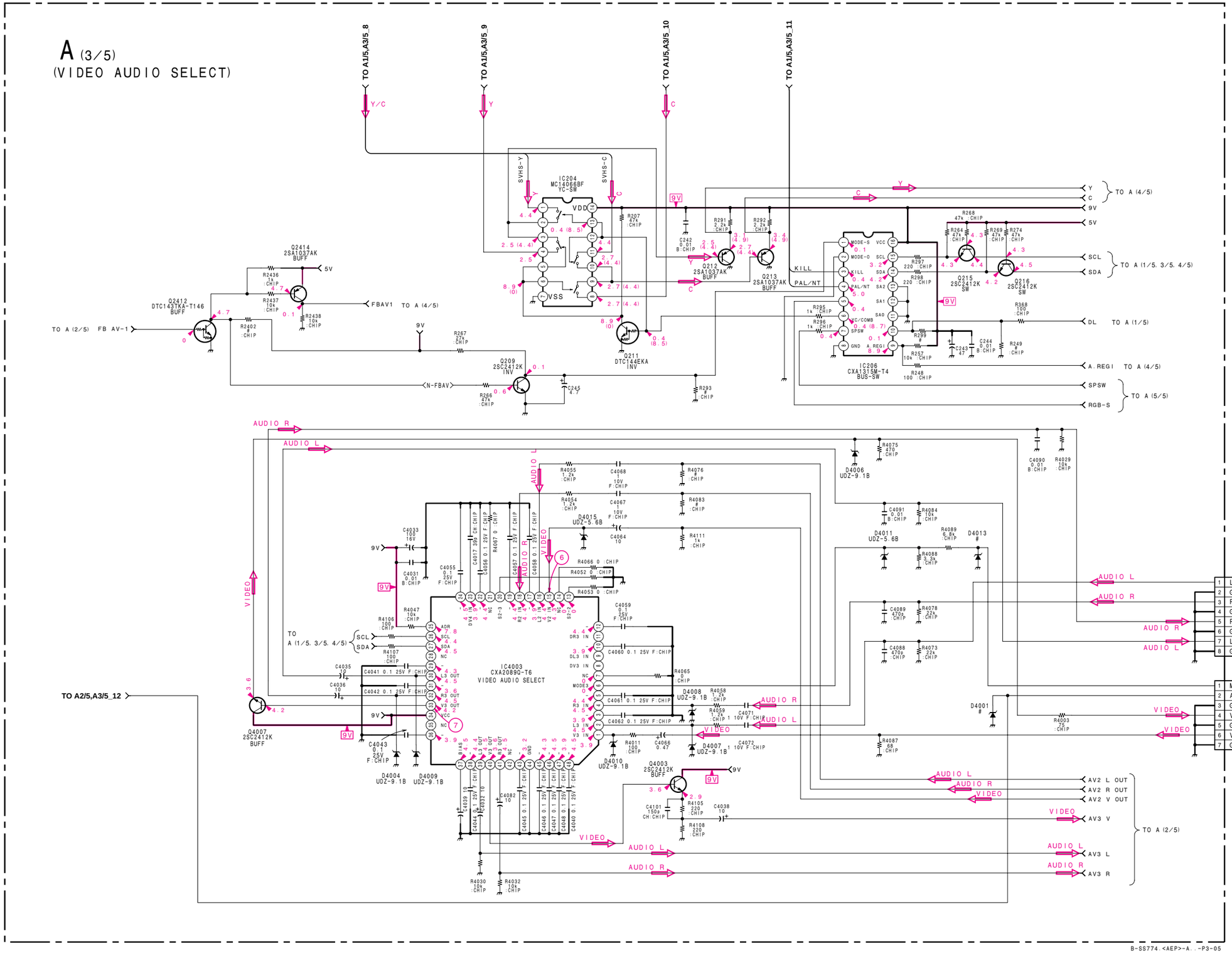
(Chip semiconductors that are not actually used are included.)

Ver.1.5

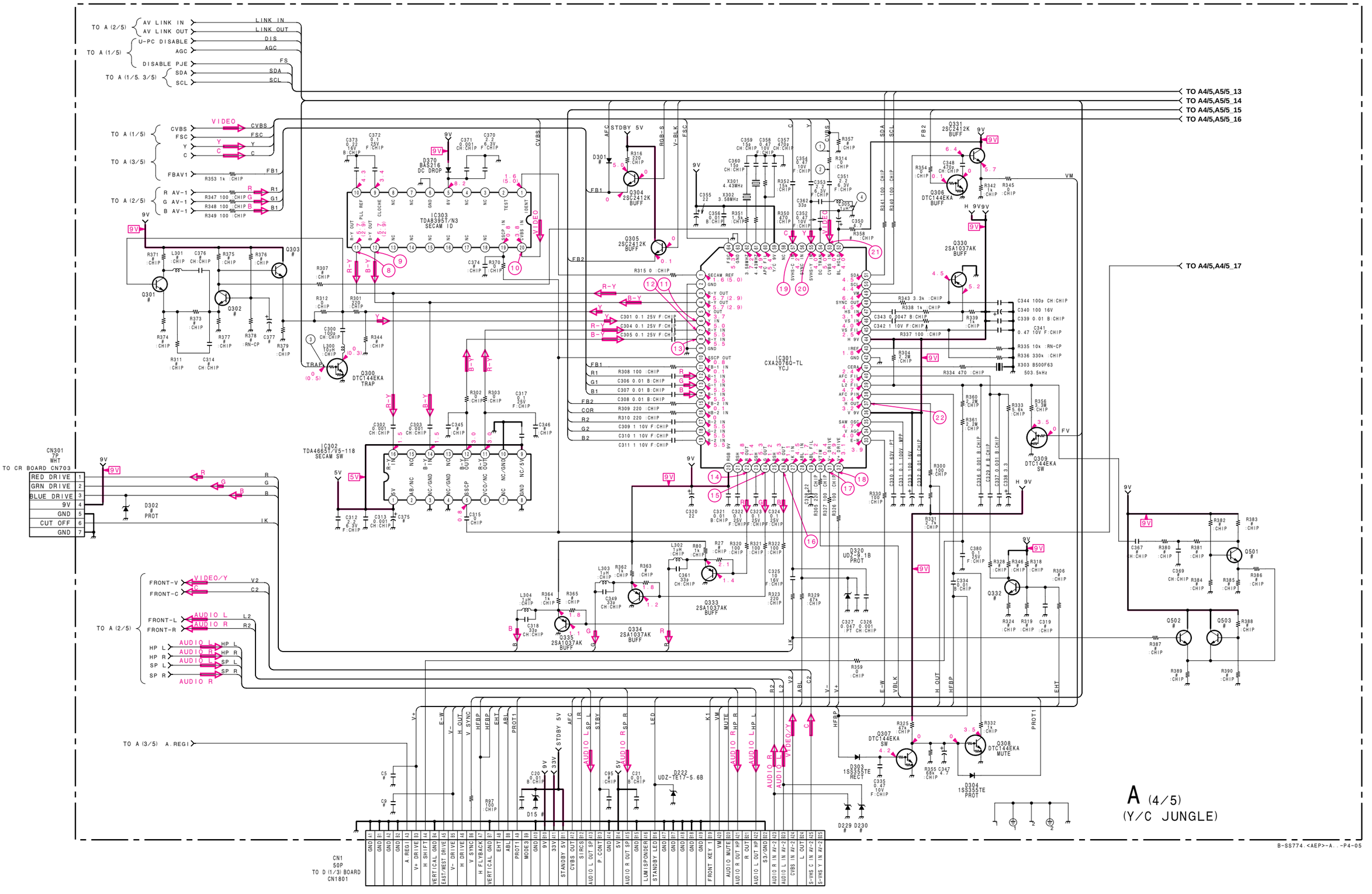
(1) Schematic Diagram of A (1/5) Board (41PX1/41PX1K)



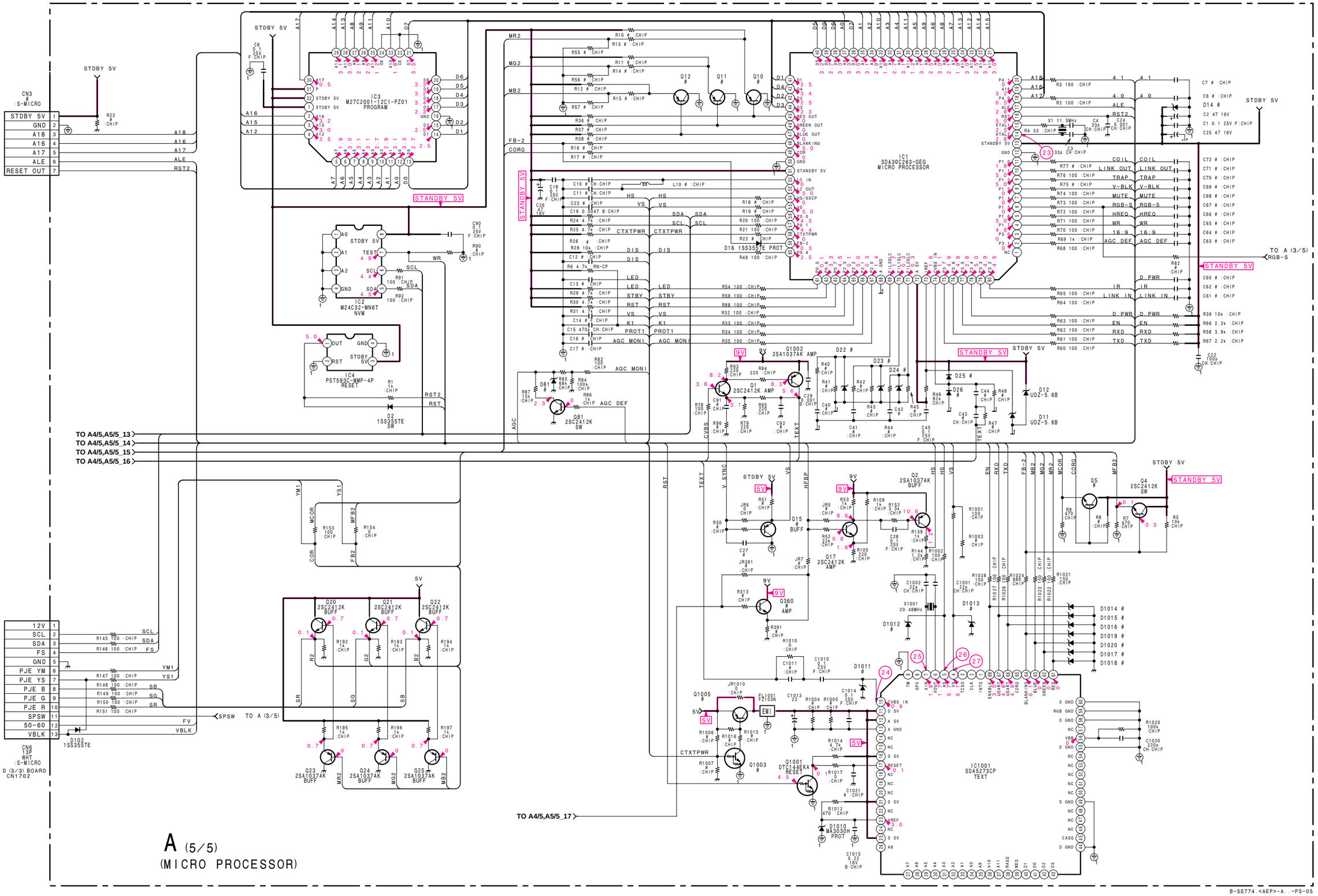

A (2/5)
(AUDIO PROCESSOR)
CN201
DUAL SCART
IC202
MSP3410G-PS-B8
AUDIO PROCESSOR
IC205
PST593C-MMP-4P
RESET
TO A1/5,A2/5_1
TO A1/5,A2/5_2
TO A1/5,A2/5_3
TO A1/5,A2/5_4
TO A1/5,A2/5_5
TO A1/5,A2/5_6
TO A1/5,A2/5_7
TO A2/5,A3/5_12
TO A (4/5)
TO A (3/5)
AUDIO L
AUDIO R
AUDIO MONO
VIDEO
VIDEO/Y
STDBY 5V
AV LINK IN
AV LINK OUT
HP R
HP L
SP R
SP L
SCL
SDA
B-SS774.<AEP>-A..-P2-05


A (3/5)
(VIDEO AUDIO SELECT)
TO A1/5,A3/5_8
TO A1/5,A3/5_9
TO A1/5,A3/5_10
TO A1/5,A3/5_11
Y/C
Y
C
IC204
MC14066BF
Y/C-SW
SVHS-Y
SVHS-C
VDD
VSS
9V
Q2414
2SA1037AK
BUFF
Q2412
DTC143TKA-T146
BUFF
FBAV1
TO A (4/5)
TO A (2/5) FB AV-1
N-FBAV
Q209
2SC2412K
INV
Q211
DTC144EKA
INV
Q212
2SA1037AK
BUFF
Q213
2SA1037AK
BUFF
KILL
PAL/NT
IC206
CXA1315M-T4
BUS-SW
MODE-S
MODE-0
KILL
PAL/NT
SDA1
SDA2
SDA0
SCL
VCC
VC/COMB
SPSW
GND
A.REGI
Q215
2SC2412K
SW
Q216
2SC2412K
SW
Y
C
9V
5V
SCL
SDA
TO A (1/5, 3/5, 4/5)
DL
TO A (1/5)
A.REGI
TO A (4/5)
SPSW
RGB-S
TO A (5/5)
AUDIO R
AUDIO L
VIDEO
IC4003
CXA20890-T6
VIDEO AUDIO SELECT
TO
A (1/5, 3/5, 4/5)
SCL
SDA
TO A2/5,A3/5_12
Q4007
2SC2412K
BUFF
Q4003
2SC2412K
BUFF
D4006
UDZ-9.1B
D4015
UDZ-5.6B
D4011
UDZ-5.6B
D4008
UDZ-9.1B
D4007
UDZ-9.1B
D4010
UDZ-9.1B
D4004
UDZ-9.1B
D4009
UDZ-9.1B
D4001
CN4501
8P
WHT
:S-MICRO
TO U BOARD:CN4902
L IN
GND
R IN
GND
R OUT
GND
L OUT
GND
CN4502
7P
RED
:S-MICRO
TO U BOARD:CN4901
MODE
AV LINK
GND
V OUT
GND
V IN
GND
AV2 L OUT
AV2 R OUT
AV2 V OUT
AV3 V
AV3 L
AV3 R
TO A (2/5)
B-SS774.<AEP>-A..-P3-05

(4) Schematic Diagram of A (4/5) Board (41PX1/41PX1K)



(5) Schematic Diagram of A (5/5) Board (41PX1/41PX1K)



• **A (1/5) BOARD WAVEFORMS (41PX1/41PX1K)**

① PAL/NTSC	① SECAM	② PAL/NTSC	② SECAM	③ PAL/NTSC	③ SECAM	④
1.1 Vp-p (H)	1.2 Vp-p (H)	1.6 Vp-p (H)	1.8 Vp-p (H)	0.9 Vp-p (H)	1.0 Vp-p (H)	1.2 Vp-p (H)

• **A (2/5) BOARD WAVEFORM (41PX1/41PX1K)**

⑤
2.5 Vp-p (18.432 MHz)

• **A (3/5) BOARD WAVEFORMS (41PX1/41PX1K)**

⑥ PAL/NTSC	⑥ SECAM	⑦ PAL/NTSC	⑦ SECAM
0.4 Vp-p (H)	0.4 Vp-p (H)	0.2 Vp-p (H)	0.2 Vp-p (H)

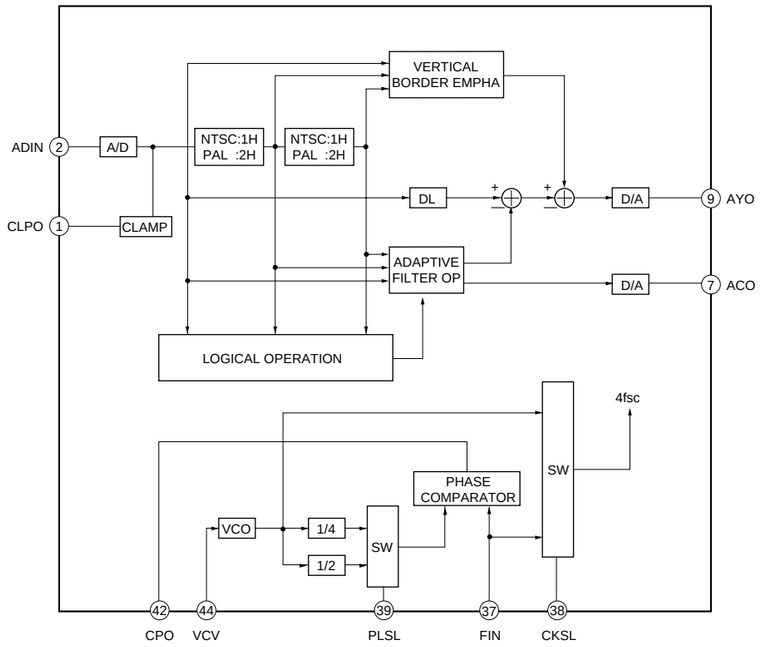
• **A (4/5) BOARD WAVEFORMS (41PX1/41PX1K)**

⑧ SECAM	⑨ SECAM	⑩ SECAM	⑪	⑫	⑬	⑭
1.3 Vp-p (H)	1.7 Vp-p (H)	1.5 Vp-p (H)	1.3 Vp-p (H)	1.0 Vp-p (H)	1.3 Vp-p (H)	3.4 Vp-p (H)
⑮	⑯	⑰	⑱	⑲ PAL/NTSC	⑲ SECAM	⑳
2.5 Vp-p (H)	2.8 Vp-p (H)	1.1 Vp-p (V)	1.1 Vp-p (V)	0.8 Vp-p (H)	0.9 Vp-p (H)	1.2 Vp-p (H)
㉑ PAL/NTSC	㉑ SECAM	㉒				
1.1 Vp-p (H)	1.5 Vp-p (H)	6.8 Vp-p (H)				

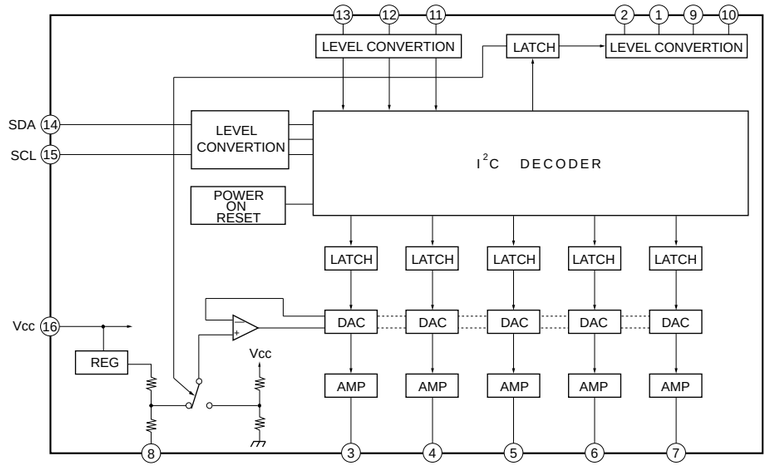
• **A (5/5) BOARD WAVEFORMS (41PX1/41PX1K)**

㉓	㉔ PAL/NTSC	㉔ SECAM	㉕	㉖	㉗
5.5 Vp-p (11.5 MHz)	2.1 Vp-p (H)	2.9 Vp-p (H)	2.3 Vp-p (20 MHz)	6.4 Vp-p (H)	3.2 Vp-p (V)

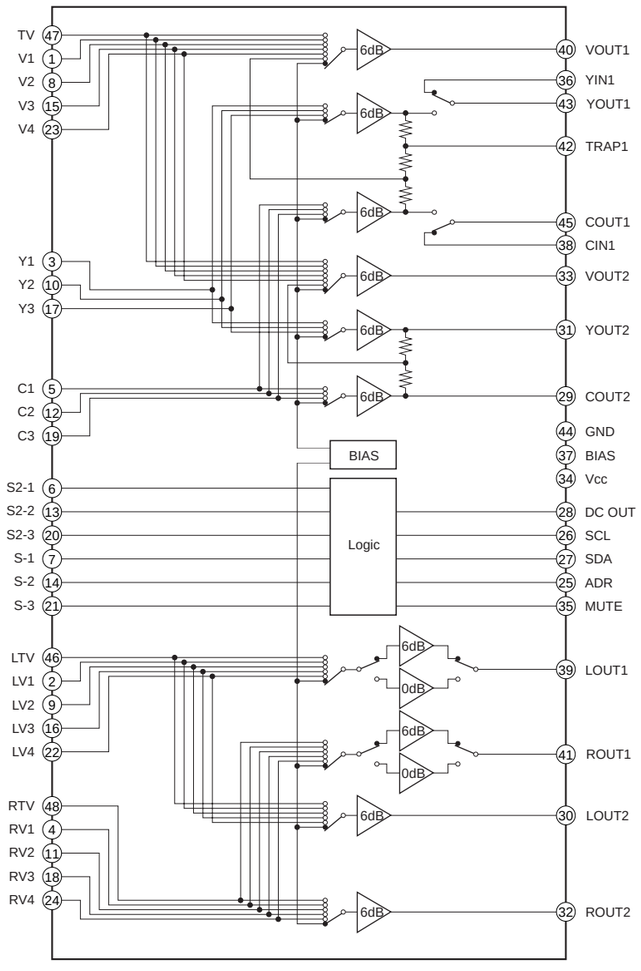
• **A (1/5) BOARD IC103 (41PX1/41PX1K)**
CXD2064Q



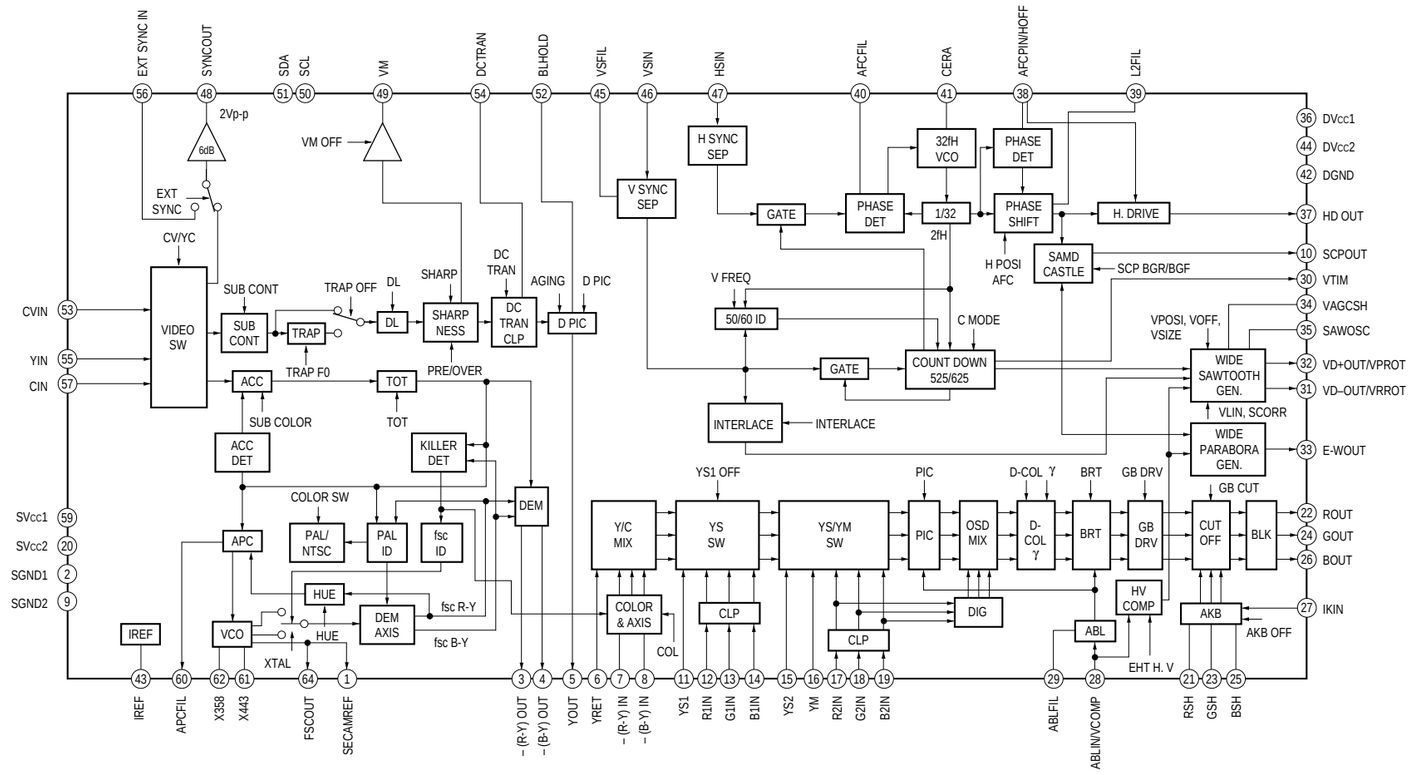
• **A (3/5) BOARD IC206 (41PX1/41PX1K)**
CXA1315M



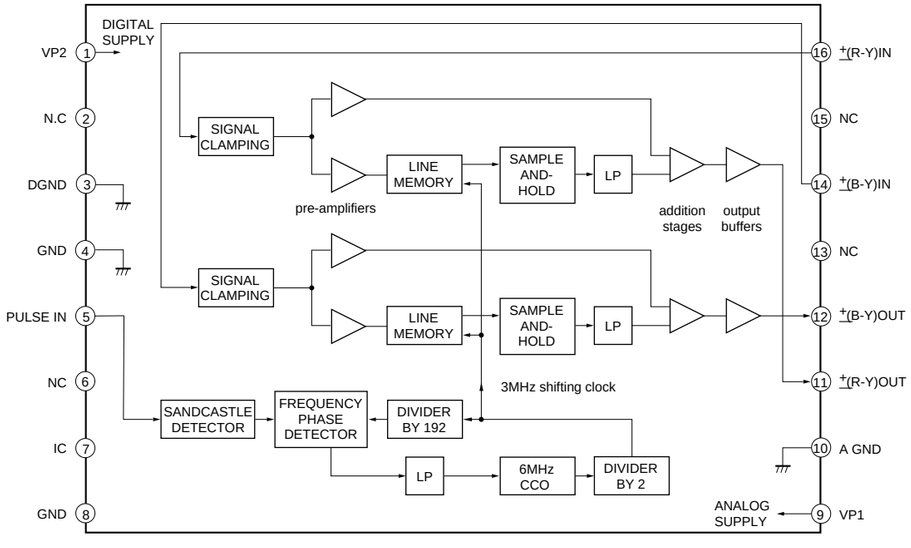
• **A (3/5) BOARD IC4003 (41PX1/41PX1K)**
CXA2089Q



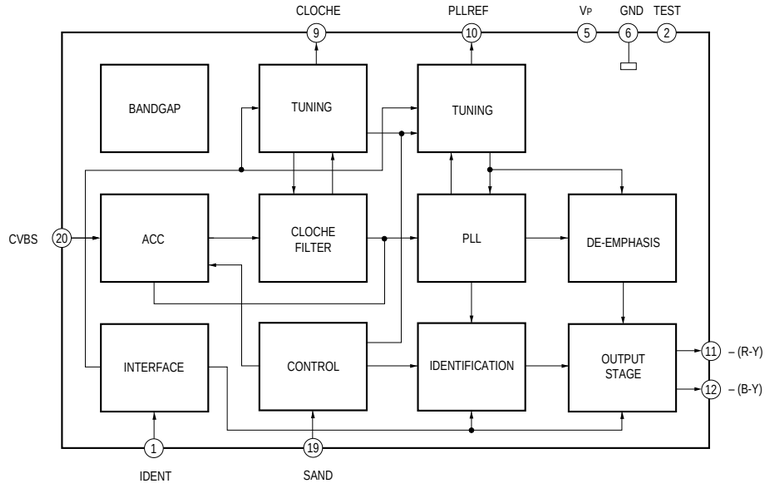
• **A (4/5) BOARD IC301 (41PX1/41PX1K)**
CXA2076Q



• **A (4/5) BOARD IC302 (41PX1/41PX1K)**
TDA4665T

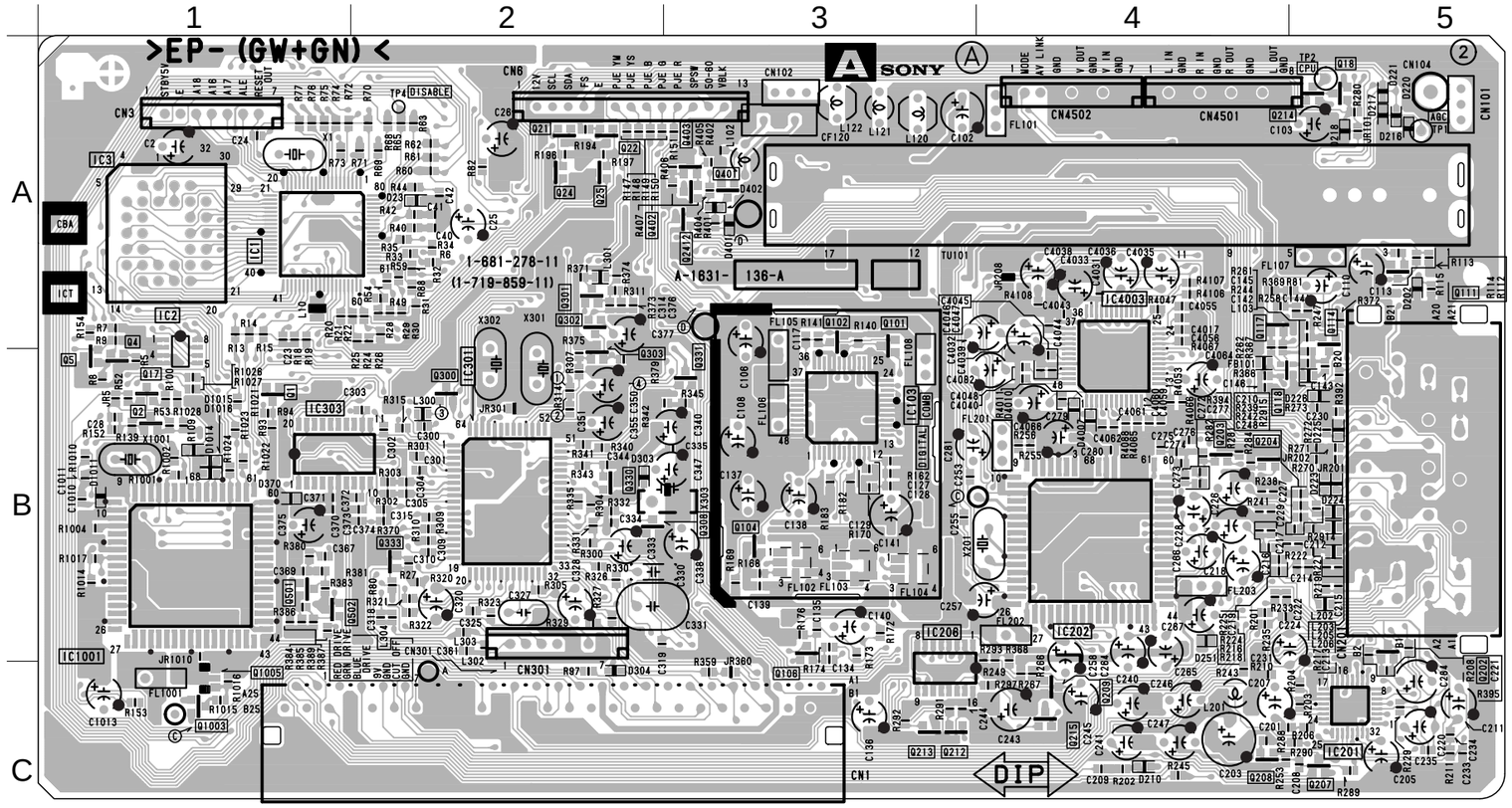


• **A (4/5) BOARD IC303 (41PX1/41PX1K)**
TDA8395T



A [μ COM, Y/C JUNGLE, TUNER, AUDIO/VIDEO PROCESS]

— A BOARD (Component Side) — (41PX1/41PX1K)



- **A BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC		
IC1	A-1	
IC2	A-1	
IC3	A-1	
IC103	B-3	
IC201	C-5	
IC202	B-4	
IC206	B-3	
IC301	B-2	
IC303	B-1	
IC1001	B-1	
IC4003	A-4	

TRANSISTOR		*
Q1	B-1	②
Q2	B-1	②
Q4	B-1	②
Q17	B-1	②
Q18	A-5	②
Q21	A-2	②
Q22	A-2	②
Q24	A-2	②
Q25	A-2	②
Q101	A-3	②
Q102	A-3	②
Q104	B-3	②
Q106	B-3	②
Q111	A-5	②
Q114	A-5	②
Q117	A-4	②
Q118	B-4	⑮
Q203	B-4	②
Q204	B-4	②
Q207	C-5	②
Q208	C-4	②
Q209	C-4	②
Q212	C-3	②
Q213	C-3	②
Q214	A-5	②
Q215	C-4	②
Q300	B-2	②
Q308	B-2	②
Q330	B-2	②
Q331	B-3	②
Q333	B-2	②
Q401	A-3	②
Q402	A-3	②
Q403	A-3	②
Q2412	A-3	②

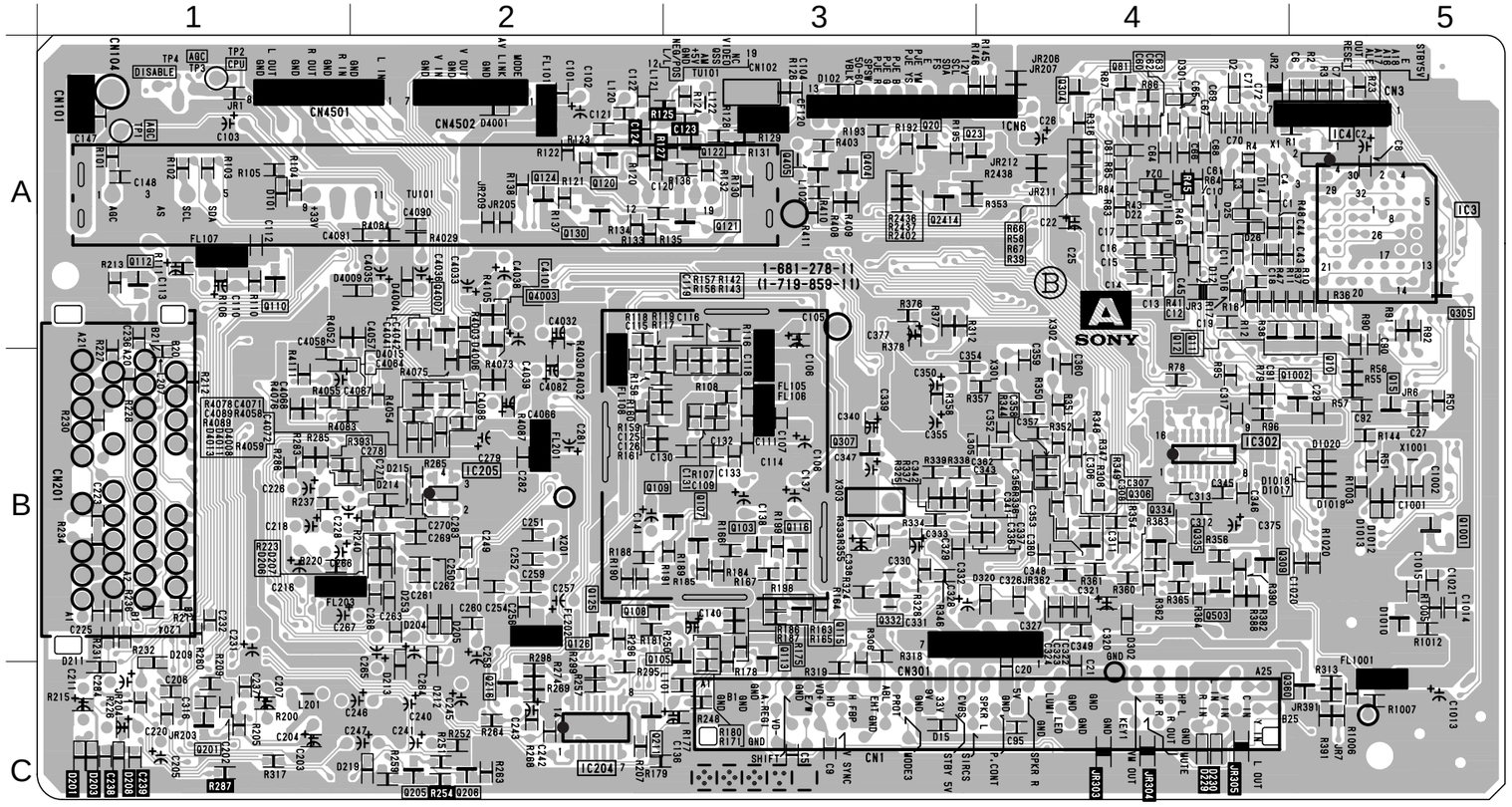
DIODE		*
D202	A-5	③
D210	C-4	③
D216	A-5	③
D217	A-5	③
D218	A-5	③
D220	A-5	③
D221	A-5	③
D223	B-5	③
D224	B-5	③
D225	B-5	③
D226	B-5	③
D251	B-4	③
D303	B-2	③
D304	C-2	③
D370	B-1	③
D401	A-3	③
D402	A-3	③
D4007	B-4	③
D4010	B-4	③

CRYSTAL	
X1	A-1
X201	B-4
X301	A-2
X302	A-2
X303	B-3
X1001	B-1

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

A [μ COM, Y/C JUNGLE, TUNER, AUDIO/VIDEO PROCESS]

— A BOARD (Conductor Side) — (41PX1/41PX1K)



• A BOARD SEMICONDUCTOR LOCATION (Conductor Side)

IC		
IC3	A-5	
IC4	A-5	
IC204	C-2	
IC205	B-2	
IC302	B-4	

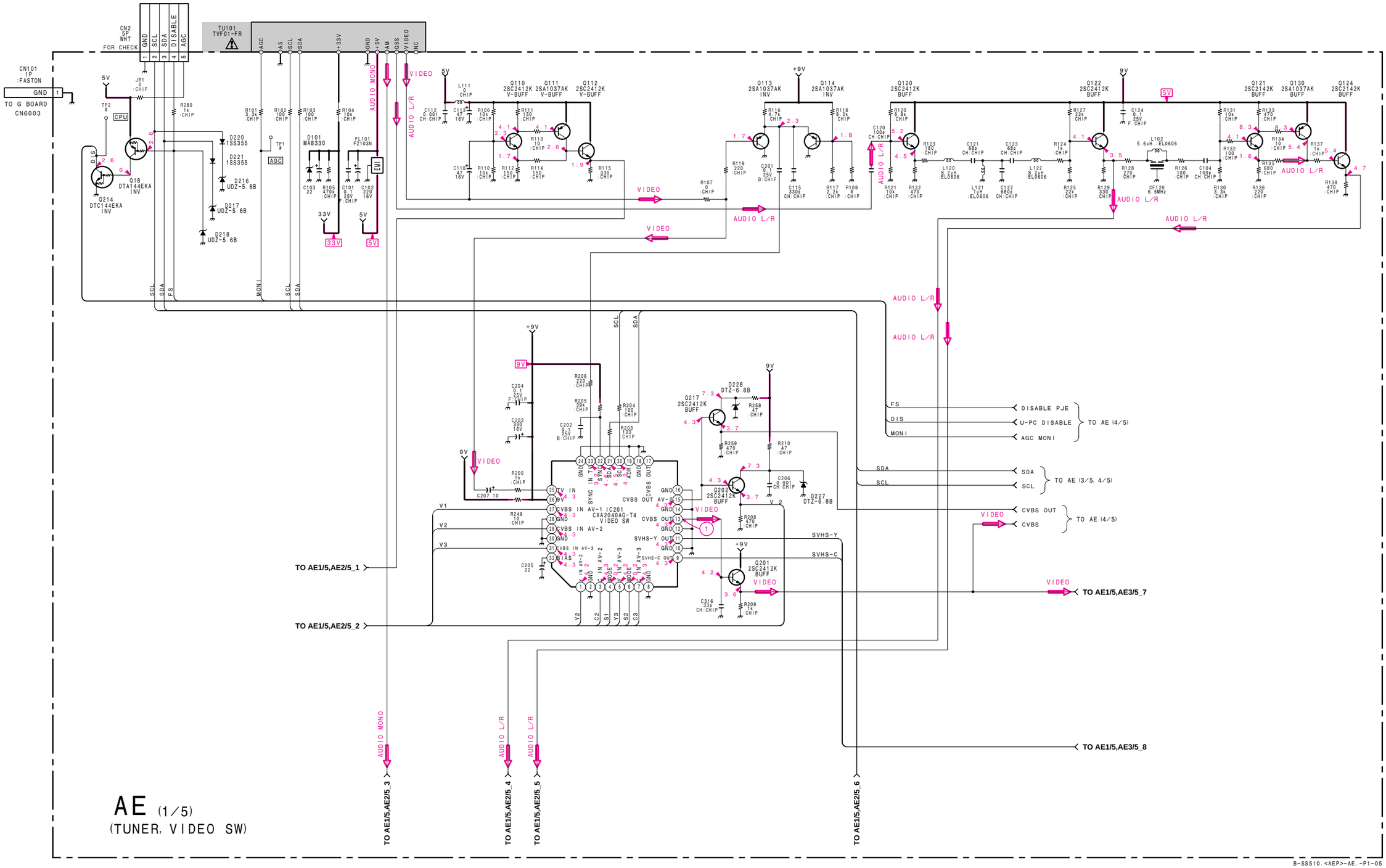
TRANSISTOR		*
Q20	A-3	①
Q23	A-3	①
Q81	A-4	①
Q103	B-3	①
Q105	B-3	①
Q107	B-3	①
Q108	B-2	①
Q109	B-3	①
Q110	A-1	①
Q112	A-1	①
Q113	B-5	①
Q115	B-3	①
Q116	B-3	①
Q120	A-2	①
Q121	A-3	①
Q122	A-3	①
Q124	A-2	①
Q125	B-2	①
Q130	A-2	①
Q201	C-1	①
Q205	C-2	①
Q206	C-2	①
Q211	C-2	①
Q216	C-2	①
Q304	A-4	①
Q305	A-5	①
Q306	B-4	①
Q307	B-3	①
Q309	B-4	①
Q334	B-4	①
Q335	B-4	①
Q404	A-3	①
Q405	A-3	①
Q1001	B-5	①
Q1002	B-5	①
Q2414	A-3	①
Q4003	A-2	①
Q4007	A-2	①

DIODE		*
D2	A-4	③
D11	A-4	③
D12	A-4	③
D16	A-4	③
D101	A-1	③
D102	A-3	③
D201	C-1	③
D203	C-1	③
D204	B-2	③
D205	B-2	③
D206	B-2	③
D207	B-2	③
D208	C-1	③
D209	B-1	③
D211	C-1	③
D212	C-2	③
D213	C-2	③
D214	B-2	③
D215	B-2	③
D320	B-4	③
D1010	B-5	④
D4004	A-2	③
D4006	B-2	③
D4008	B-2	③
D4009	A-2	③
D4011	B-2	③
D4015	B-1	③

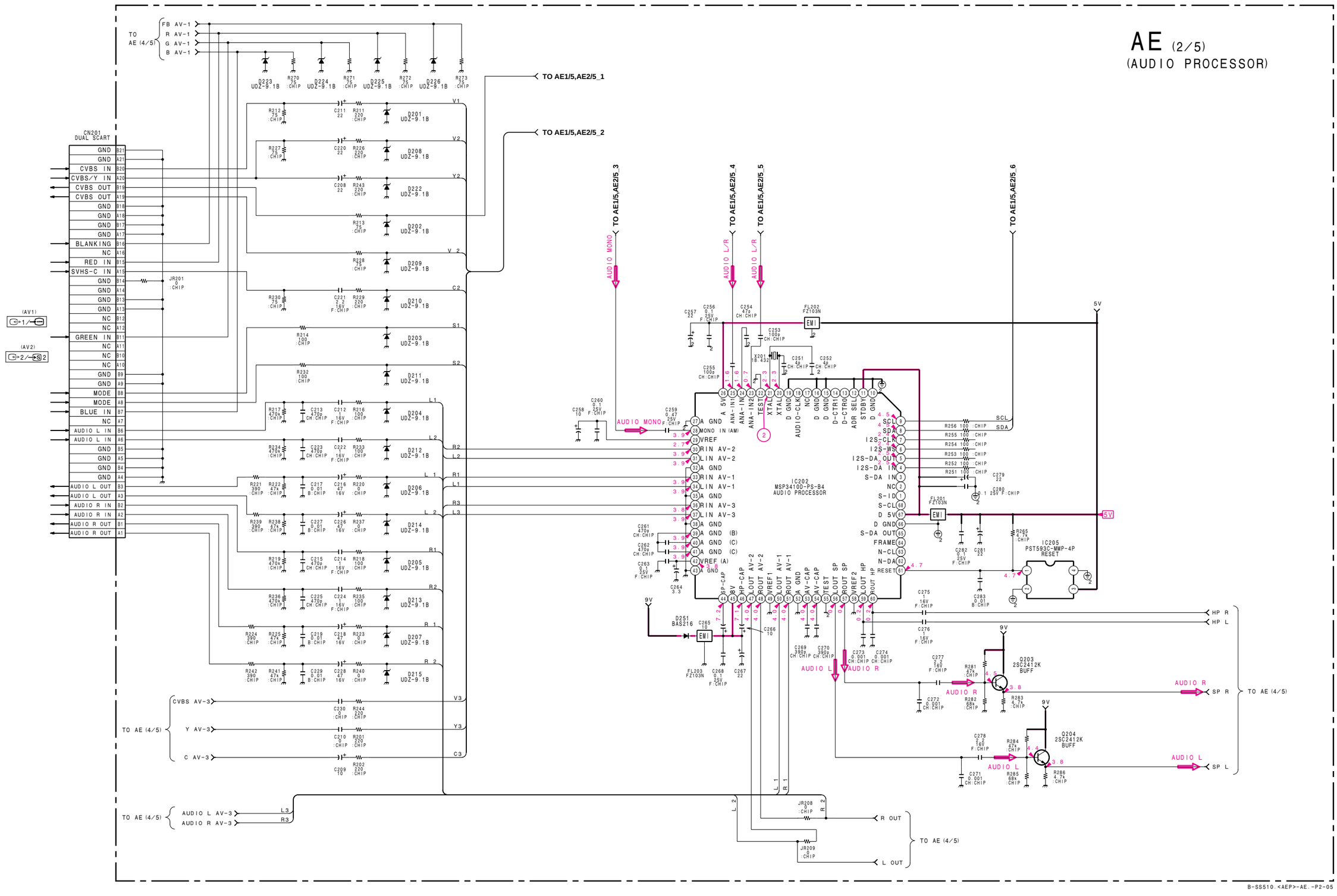
CRYSTAL	
X1	A-4
X201	B-2
X301	B-4
X302	B-4
X303	B-3
X1001	B-5

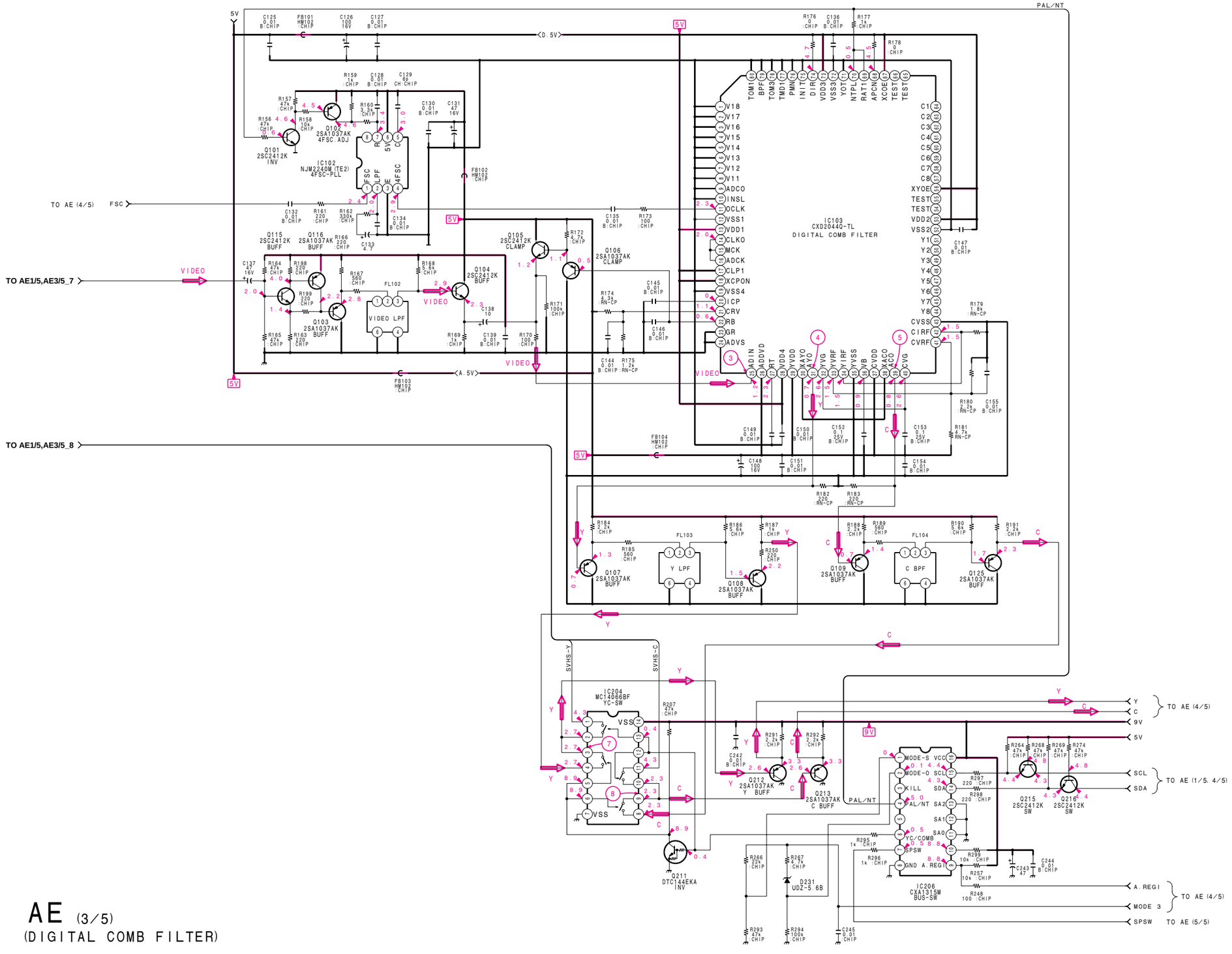
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

(6) Schematic Diagram of AE (1/5) Board (41PX1R)

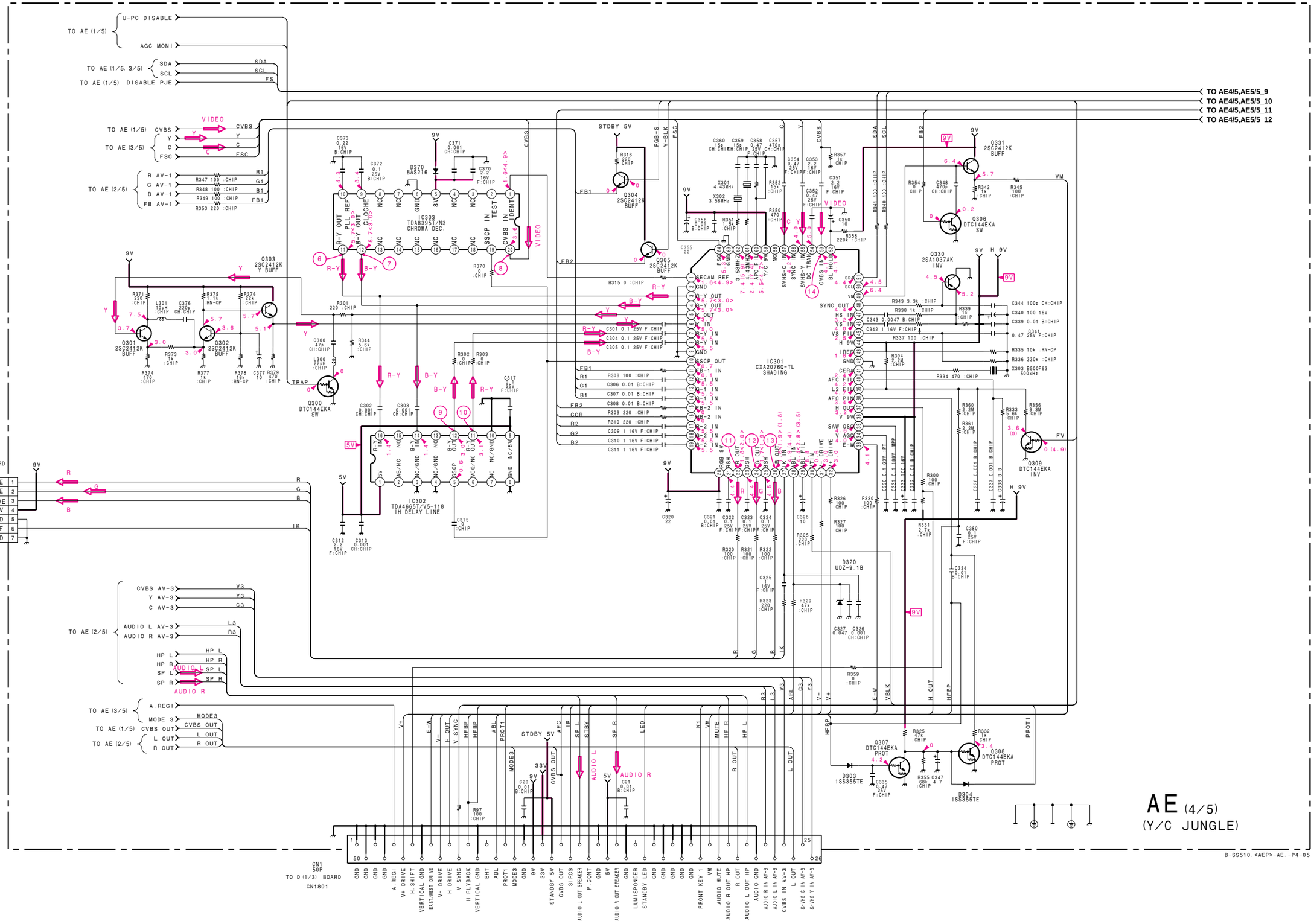


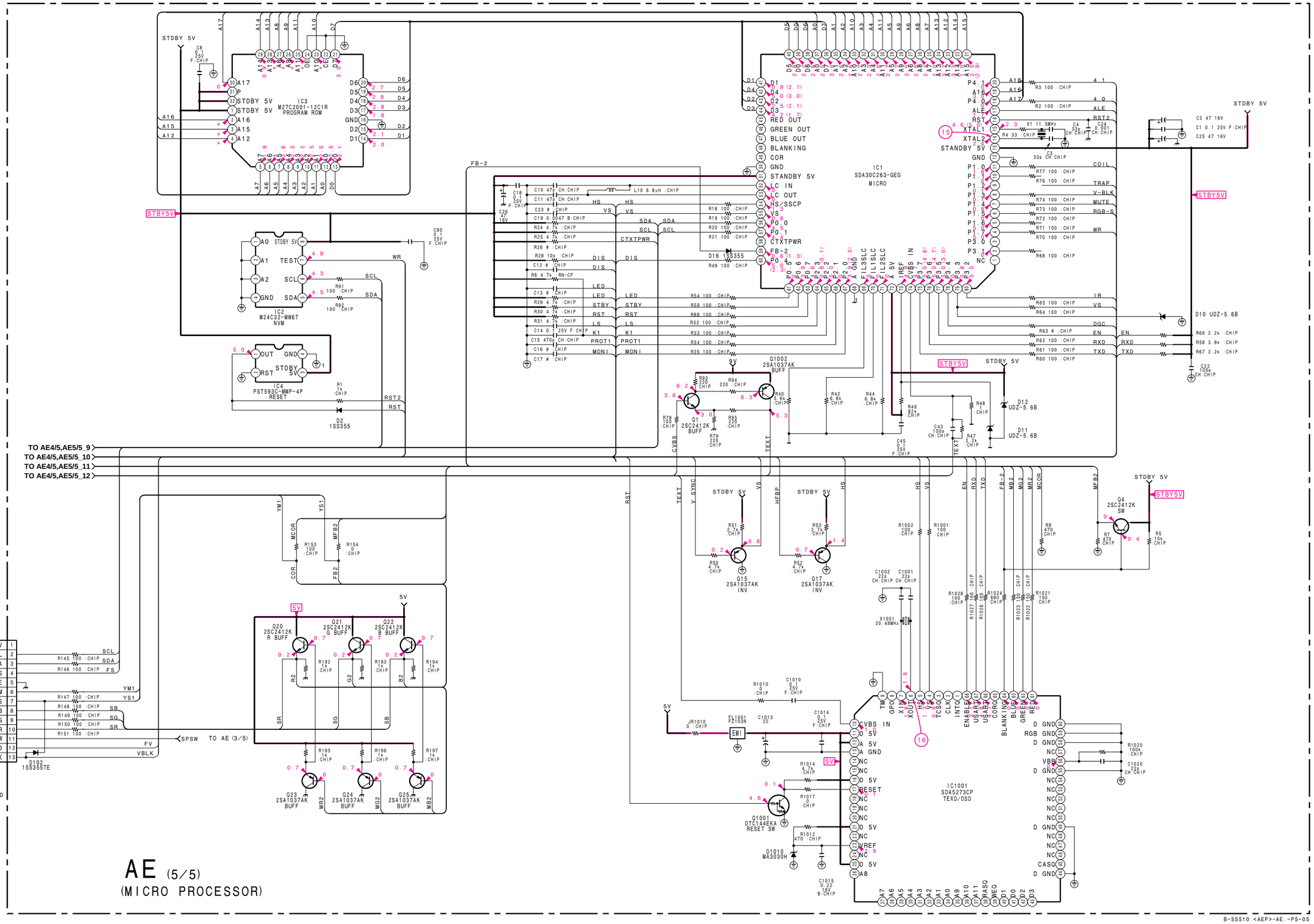
(7) Schematic Diagram of AE (2/5) Board (41PX1R)





AE (3/5)
(DIGITAL COMB FILTER)


TO AE4/5,AE5/5_9
TO AE4/5,AE5/5_10
TO AE4/5,AE5/5_11
TO AE4/5,AE5/5_12
AE (4/5)
(Y/C JUNGLE)
B-SS510.<AEP>-AE.-P4-05


AE (5/5)
(MICRO PROCESSOR)
IC1 SDA30C263-GEG MICRO
IC2 M24C32-MW6T NVM
IC3 M27C2001-12C1R PROGRAM ROM
IC4 PST593C-MMP-4P RESET
IC1001 SDA5273CP TEXD/OSD
STDBY 5V
STBY5V
TO AE4/5,AE5/5_9
TO AE4/5,AE5/5_10
TO AE4/5,AE5/5_11
TO AE4/5,AE5/5_12
TO D (3/3) BOARD CN1702
CN6 13P WHT :S-MICRO
D102 1SS355TE
D2 1SS355
D16 1SS355
D10 UDZ-5.6B
D11 UDZ-5.6B
D12 UDZ-5.6B
D1010 MA3030H
Q1 2SC2412K BUFF
Q1001 DTC144EKA RESET SW
Q1002 2SA1037AK BUFF
Q4 2SC2412K SW
Q15 2SA1037AK INV
Q17 2SA1037AK INV
Q20 2SC2412K R BUFF
Q21 2SC2412K G BUFF
Q22 2SC2412K B BUFF
Q23 2SA1037AK BUFF
Q24 2SA1037AK BUFF
Q25 2SA1037AK BUFF
X1 11.5MHz
X1001 20.48MHz
FB-2
L10 6.8µH :CHIP
SPSW
TO AE (3/5)

• **AE (1/5) BOARD WAVEFORMS (41PX1R)**

① PAL/NTSC  1.1 Vp-p (H)	① SECAM  1.2 Vp-p (H)

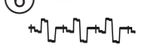
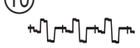
• **AE (2/5) BOARD WAVEFORM (41PX1R)**

②  1.6 Vp-p (18.432 MHz)

• **AE (3/5) BOARD WAVEFORMS (41PX1R)**

③ PAL/NTSC  1.7 Vp-p (H)	③ SECAM  1.8 Vp-p (H)	④  1.3 Vp-p (H)	⑤ PAL/NTSC  0.5 Vp-p (H)	⑤ SECAM  0.4 Vp-p (H)

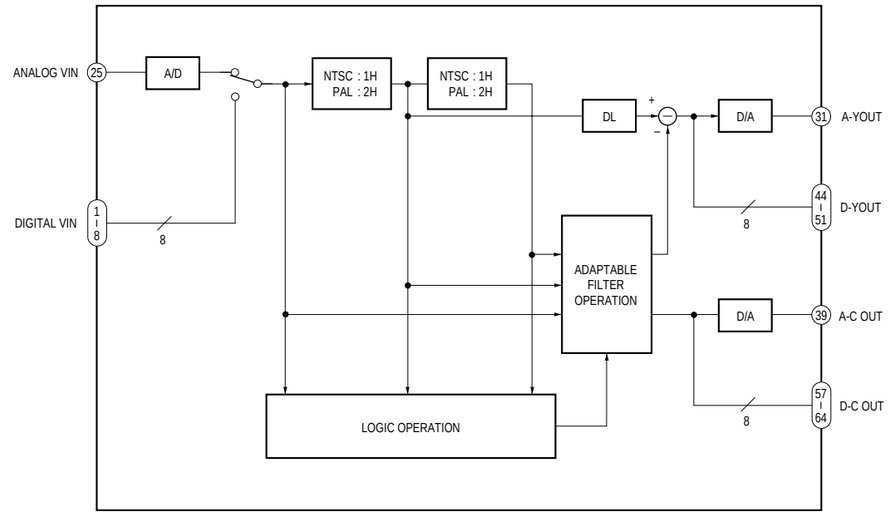
• **AE (4/5) BOARD WAVEFORMS (41PX1R)**

⑥ SECAM  1.0 Vp-p (H)	⑦ SECAM  1.5 Vp-p (H)	⑧ SECAM  1.2 Vp-p (H)	⑨  1.3 Vp-p (H)	⑩  1.1 Vp-p (H)
⑪  3.6 Vp-p (H)	⑫  3.6 Vp-p (H)	⑬  3.4 Vp-p (H)	⑭ PAL/NTSC  1.1 Vp-p (H)	⑭ SECAM  1.2 Vp-p (H)

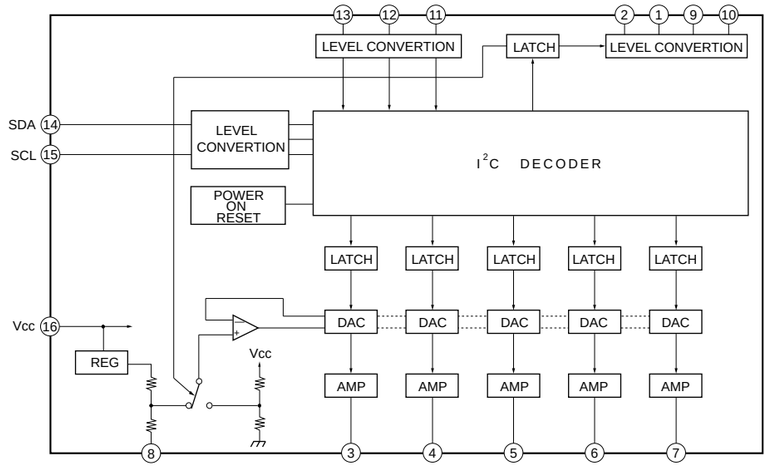
• **AE (5/5) BOARD WAVEFORMS (41PX1R)**

⑮  3.4 Vp-p (11.5 MHz)	⑯  1.7 Vp-p (20 MHz)

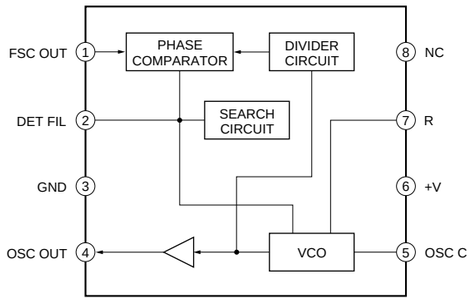
• **AE (3/5) BOARD IC103 (41PX1R)**
CXD2044Q



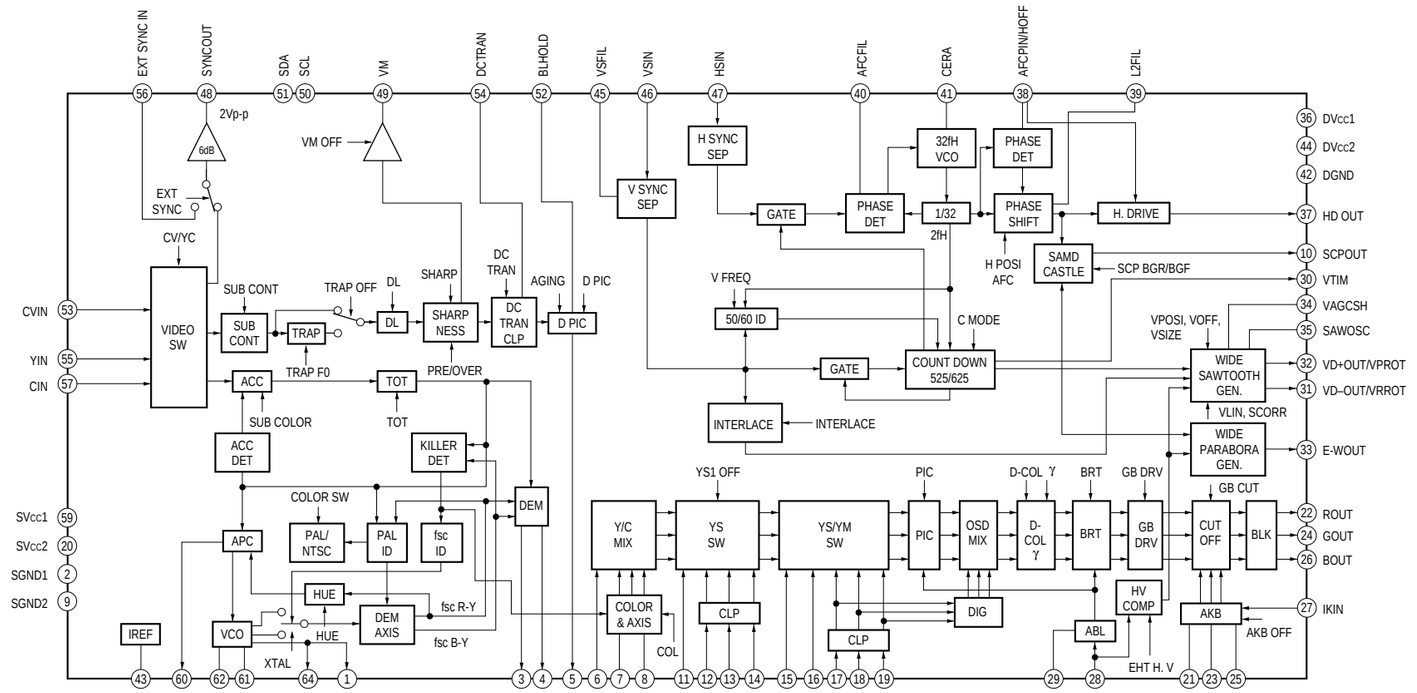
• **AE (3/5) BOARD IC206 (41PX1R)**
CXA1315M



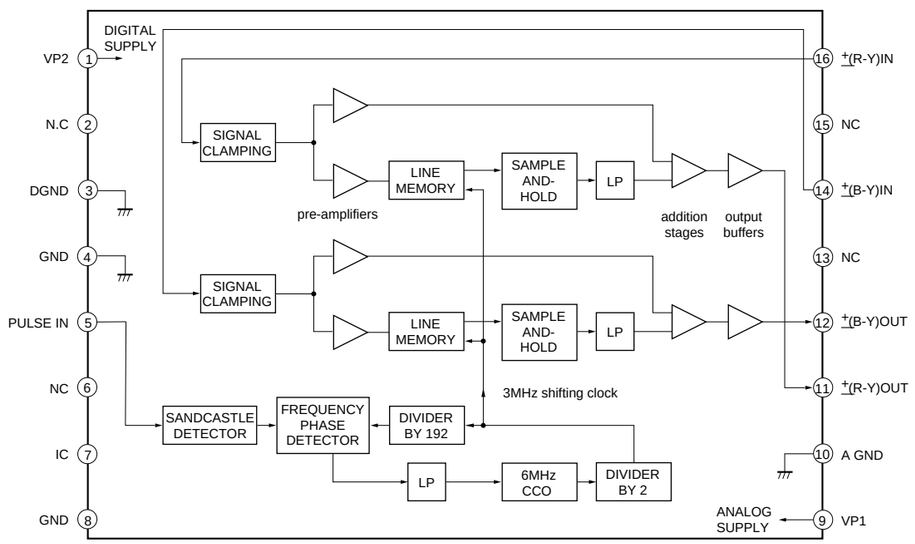
- **AE (3/5) BOARD IC102 (41PX1R)**
  NJM2240M



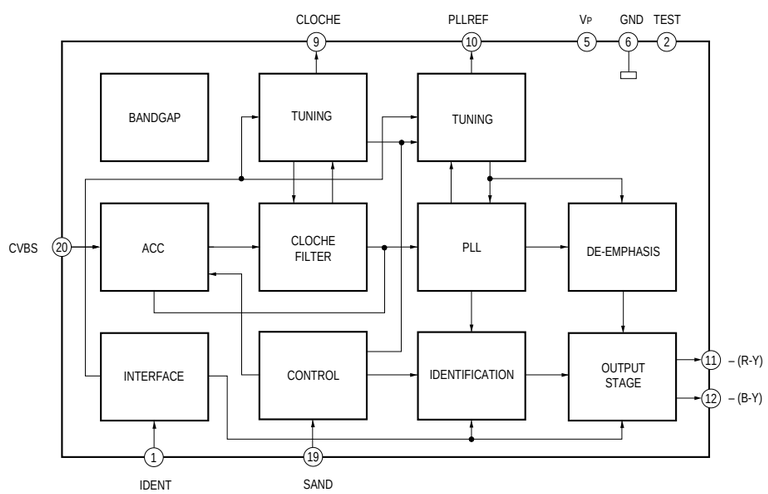
- **AE (4/5) BOARD IC301 (41PX1R)**
  CXA2076Q



- **AE (4/5) BOARD IC302 (41PX1R)**
  TDA4665T

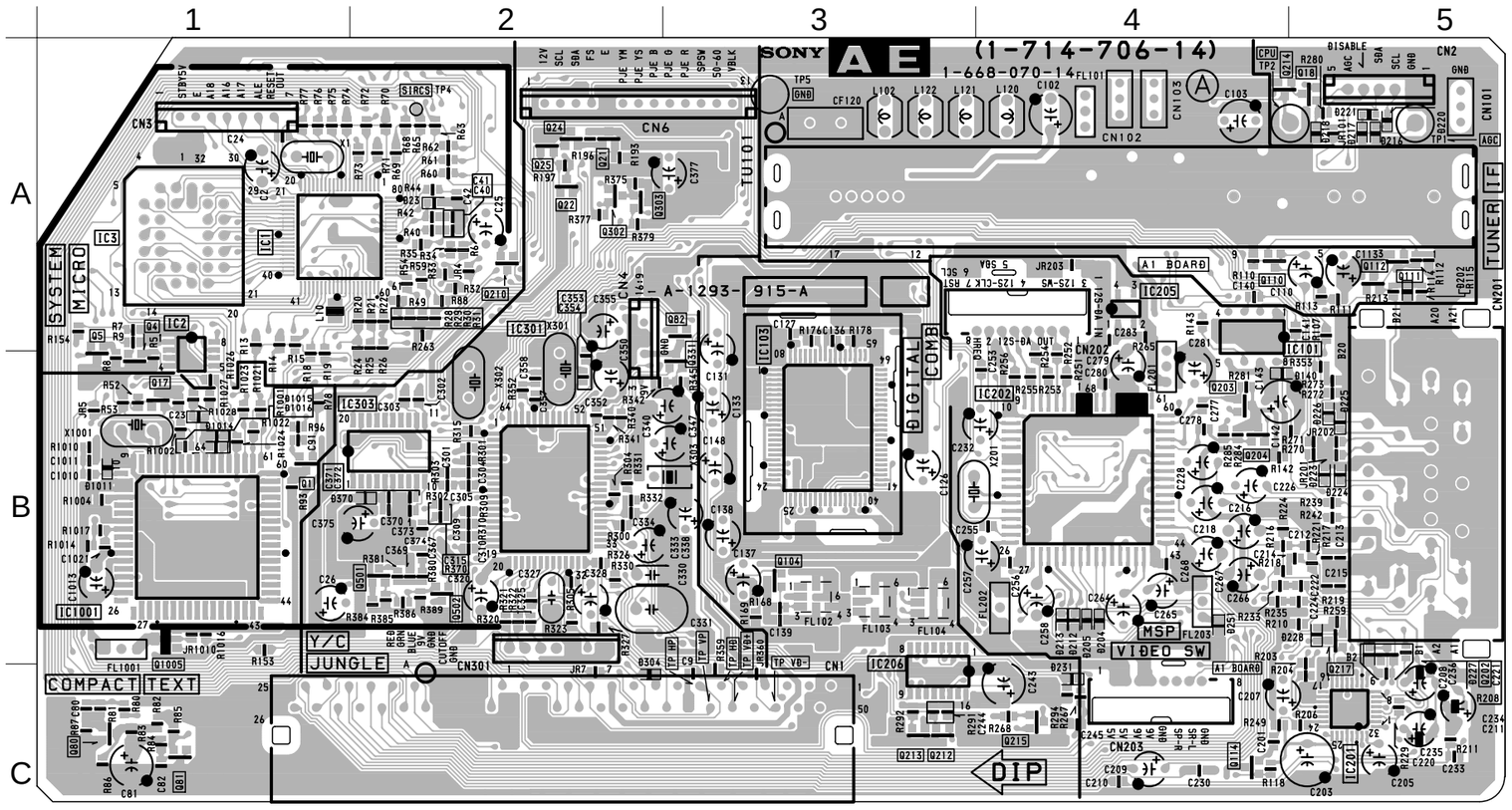


- **AE (4/5) BOARD IC303 (41PX1R)**
  TDA8395T



AE [μ COM, Y/C JUNGLE, TUNER, AUDIO/VIDEO PROCESS]

— AE BOARD (Component Side) — (41PX1R)



- **AE BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC		
IC1	A-1	
IC2	A-1	
IC3	A-1	
IC103	B-3	
IC201	C-5	
IC202	B-4	
IC205	A-4	
IC206	C-3	
IC301	B-2	
IC303	B-2	
IC1001	B-1	

TRANSISTOR		*
Q1	B-1	②
Q4	A-1	②
Q17	B-1	②
Q18	A-5	②
Q21	A-2	②
Q22	A-2	②
Q24	A-2	②
Q25	A-2	②
Q104	B-3	②
Q110	A-4	②
Q111	A-5	②
Q112	A-5	②
Q114	C-4	②
Q202	C-5	②
Q203	B-4	②
Q204	B-4	②
Q212	C-3	②
Q213	C-3	②
Q214	A-4	②
Q215	C-4	②
Q217	C-5	②
Q302	A-2	②
Q303	A-2	②
Q331	B-3	②

DIODE		*
D202	A-5	③
D204	B-4	③
D205	B-4	③
D212	B-4	③
D213	B-4	③
D216	A-5	③
D217	A-5	③
D218	A-5	③
D220	A-5	③
D221	A-5	③
D223	B-5	③
D224	B-5	③
D225	B-5	③
D226	B-5	③
D227	C-5	③
D228	B-5	③
D231	C-4	③
D251	B-4	③
D304	C-2	③
D370	B-2	③

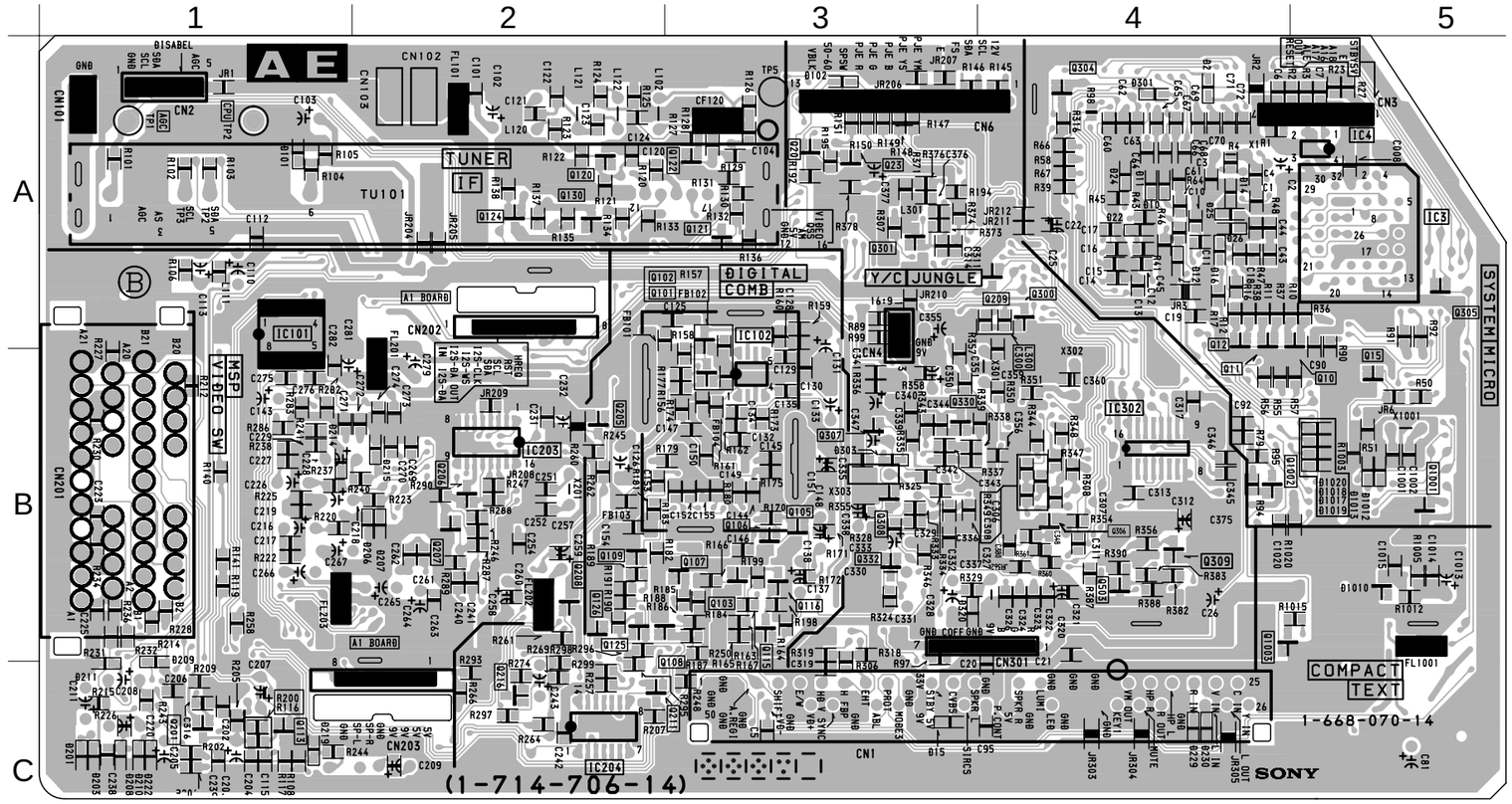
CRYSTAL	
X1	A-1
X201	B-4
X301	B-2
X302	B-2
X303	B-3
X1001	B-1

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

AE

[μ COM, Y/C JUNGLE, TUNER, AUDIO/VIDEO PROCESS]

— AE BOARD (Conductor Side) — (41PX1R)



• AE BOARD SEMICONDUCTOR LOCATION (Conductor Side)

IC		
IC3	A-5	
IC4	A-5	
IC102	A-3	
IC204	C-2	
IC302	B-4	

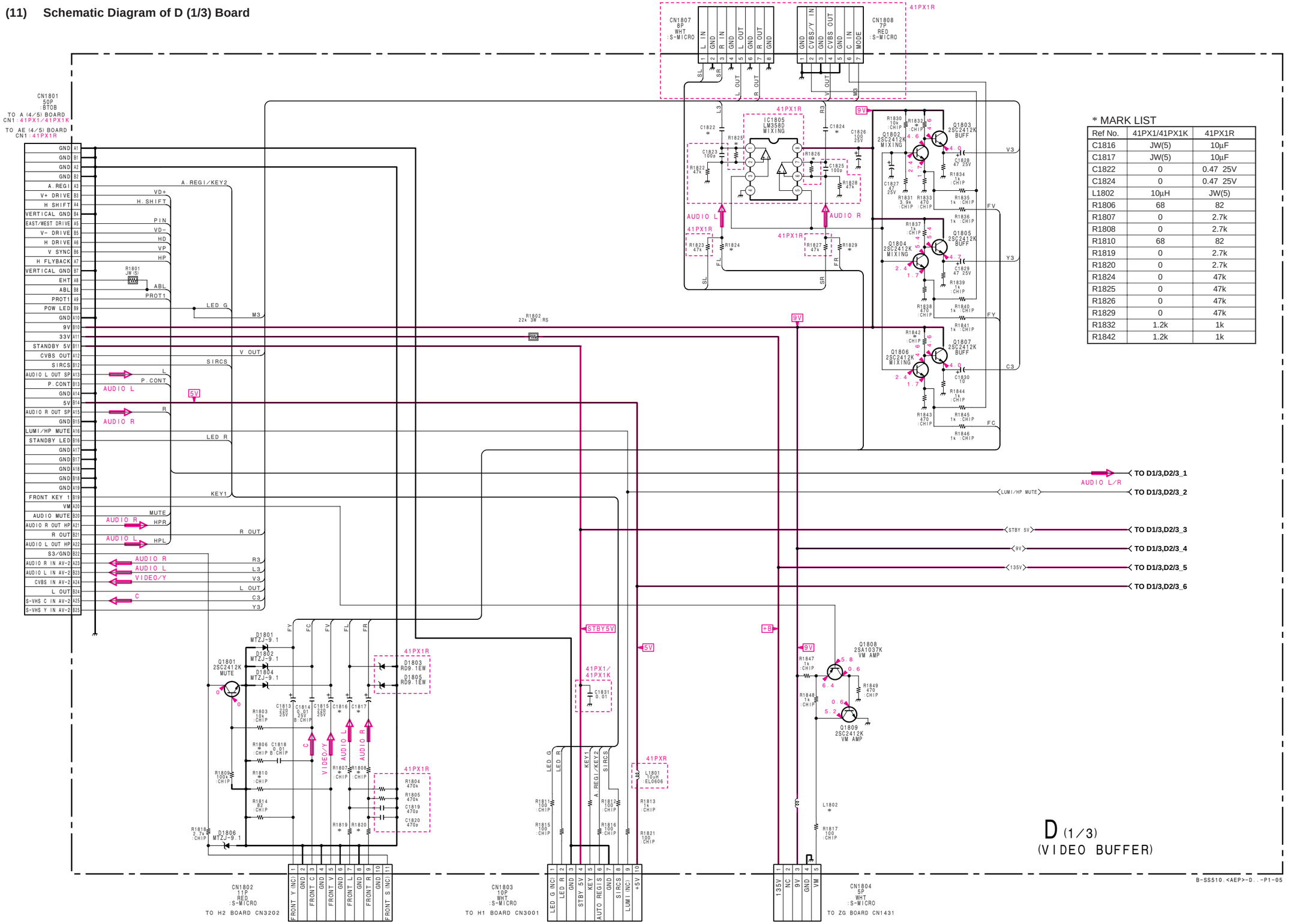
TRANSISTOR		
		*
Q15	B-5	①
Q20	A-3	①
Q23	A-3	①
Q101	A-3	①
Q102	B-3	①
Q103	B-3	①
Q105	B-3	①
Q106	B-3	①
Q107	B-3	①
Q108	C-3	①
Q109	B-2	①
Q113	C-1	①
Q115	B-3	①
Q116	B-3	①
Q120	A-2	①
Q121	A-3	①
Q122	A-3	①
Q124	A-2	①
Q125	B-2	①
Q130	A-2	①
Q201	C-1	①
Q211	C-3	①
Q216	C-2	①
Q300	A-4	①
Q301	A-3	①
Q304	A-4	①
Q305	A-5	①
Q306	B-4	①
Q307	B-3	①
Q308	B-3	①
Q309	B-4	①
Q330	B-3	①
Q1001	B-5	①
Q1002	B-4	①

DIODE		
		*
D2	A-4	③
D10	A-4	③
D11	A-4	③
D12	A-4	③
D16	A-4	③
D101	A-1	③
D102	A-3	③
D201	C-1	③
D203	C-1	③
D206	B-2	③
D207	B-2	③
D208	C-1	③
D209	C-1	③
D210	C-1	③
D211	C-1	③
D214	B-1	③
D215	B-2	③
D222	C-1	③
D303	B-3	③
D320	B-3	③
D1010	B-5	④

CRYSTAL	
X1	A-4
X201	B-2
X301	B-4
X302	B-4
X303	B-3
X1001	B-5

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

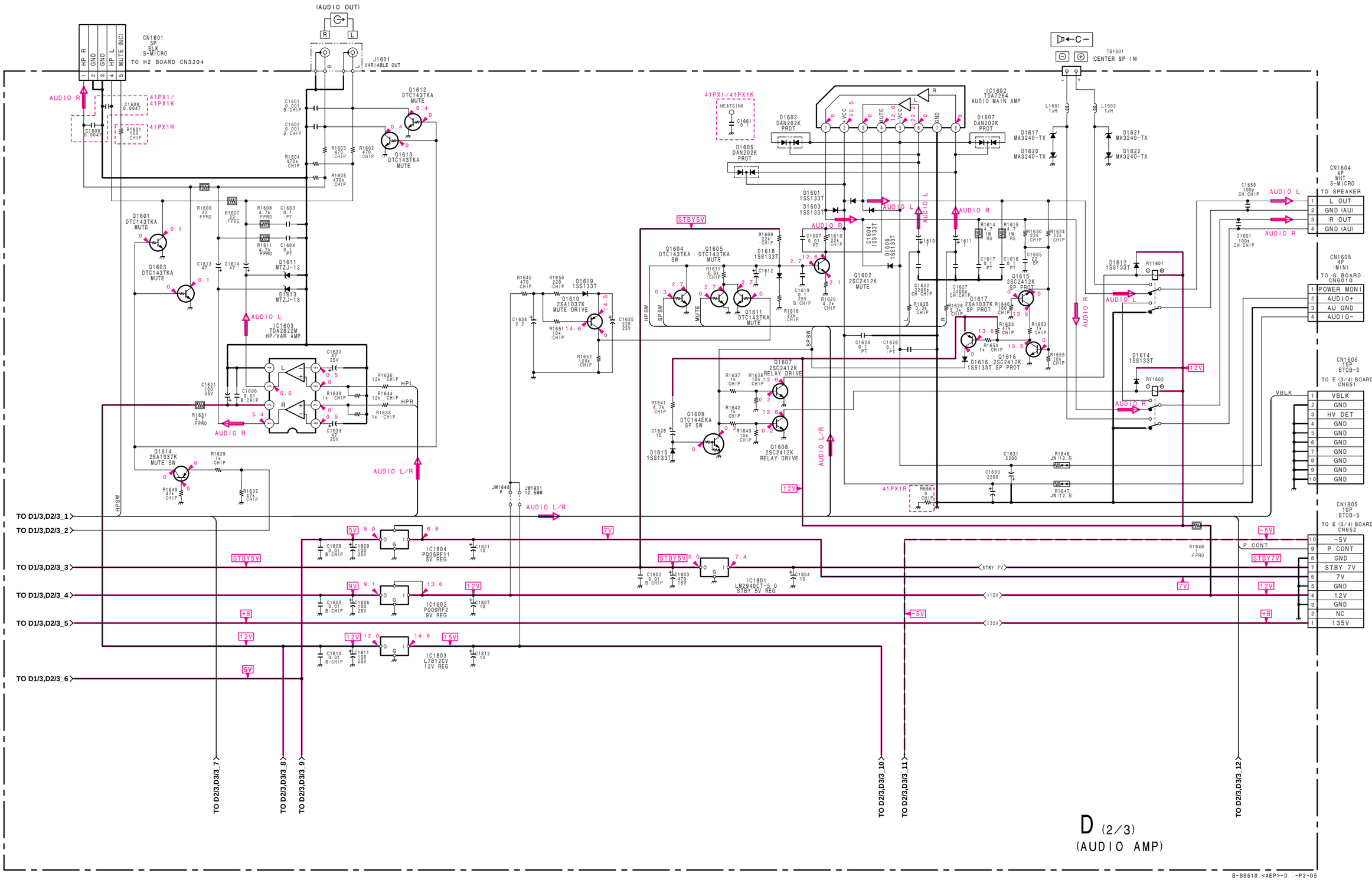
(11) Schematic Diagram of D (1/3) Board



* MARK LIST

Ref No.	41PX1/41PX1K	41PX1R
C1816	JW(5)	10µF
C1817	JW(5)	10µF
C1822	0	0.47 25V
C1824	0	0.47 25V
L1802	10µH	JW(5)
R1806	68	82
R1807	0	2.7k
R1808	0	2.7k
R1810	68	82
R1819	0	2.7k
R1820	0	2.7k
R1824	0	47k
R1825	0	47k
R1826	0	47k
R1829	0	47k
R1832	1.2k	1k
R1842	1.2k	1k

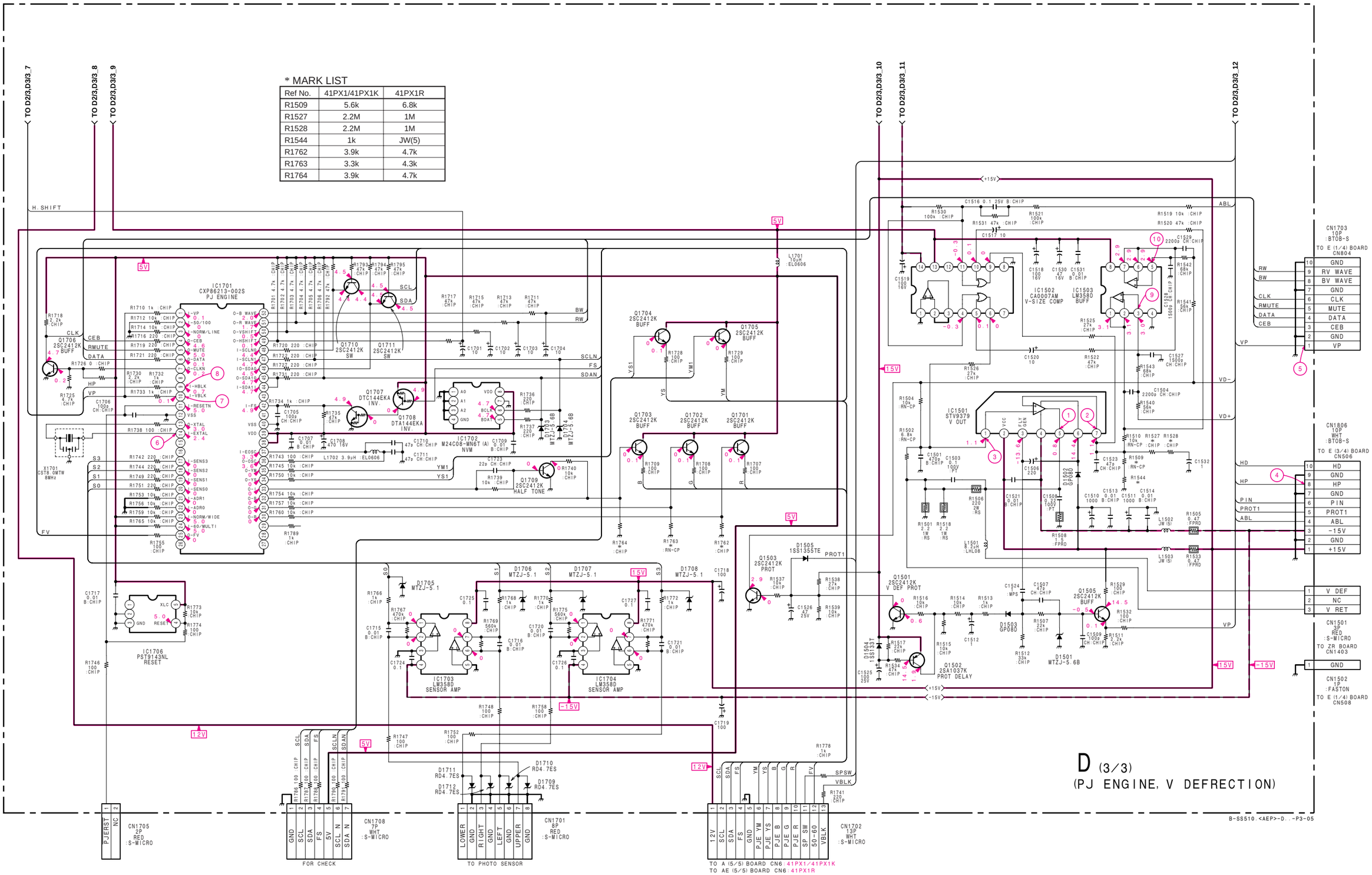
(12) Schematic Diagram of D (2/3) Board



(13) Schematic Diagram of D (3/3) Board

* MARK LIST

Ref No.	41PX1/41PX1K	41PX1R
R1509	5.6k	6.8k
R1527	2.2M	1M
R1528	2.2M	1M
R1544	1k	JW(5)
R1762	3.9k	4.7k
R1763	3.3k	4.3k
R1764	3.9k	4.7k

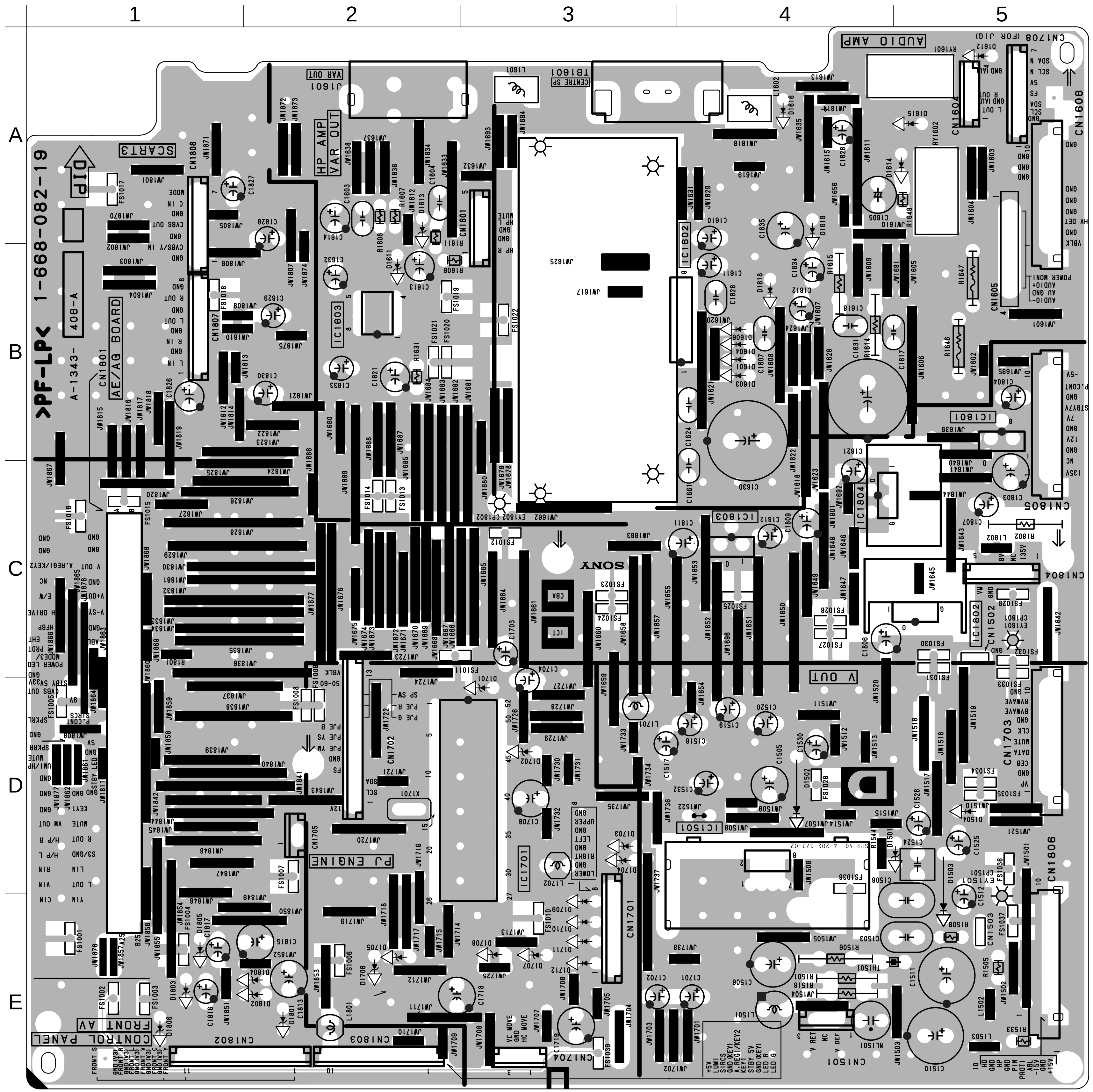


• **D (3/3) BOARD WAVEFORMS**

①  57.5 Vp-p (V)	②  0.5 Vp-p (V)	③  0.5 Vp-p (V)	④  4.7 Vp-p (H)	⑤  4.7 Vp-p (V)	⑥  3.6 Vp-p (8 MHz)
⑦  4.7 Vp-p (V)	⑧  4.7 Vp-p (H)	⑨  1.3 Vp-p (V)	⑩  1.3 Vp-p (V)		

D [AUDIO AMP, V DEFRECTION, PJ ENGINE]

— D BOARD (Component Side) —

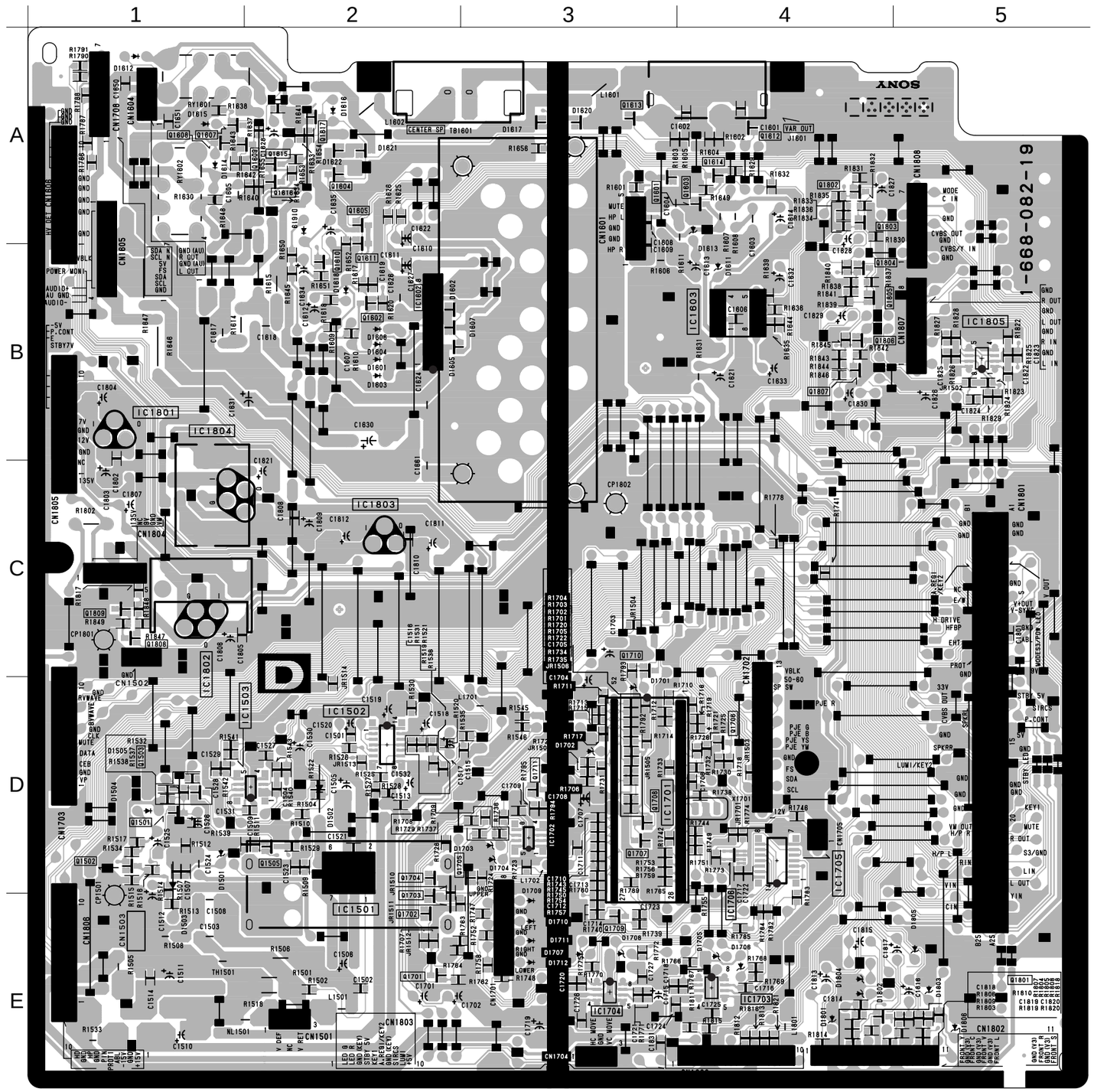


• **D BOARD SEMICONDUCTOR LOCATION (Component Side)**

IC	
IC1501	D-4
IC1602	B-4
IC1603	B-2
IC1701	D-3
IC1801	B-5
IC1802	C-5
IC1803	C-4
IC1804	C-4
DIODE	
D1501	D-4
D1502	D-4
D1503	D-5
D1504	D-5
D1601	B-4
D1603	B-4
D1604	B-4
D1606	B-4
D1611	B-2
D1612	A-5
D1613	A-2
D1614	A-5
D1615	A-5
D1616	A-4
D1618	B-4
D1619	A-4
D1703	D-3
D1704	D-3
D1705	E-2
D1706	E-2
D1707	E-3
D1708	E-3
D1709	E-3
D1710	E-3
D1711	E-3
D1712	E-3
D1801	E-2
D1802	E-2
D1803	E-1
D1804	E-2
D1805	E-1
D1806	E-1
CRYSTAL	
X1701	D-2

D [AUDIO AMP, V DEFRECTION, PJ ENGINE]

— D BOARD (Conductor Side) —



- **D BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

IC		
IC1501	D-2	
IC1502	D-2	
IC1503	D-2	
IC1602	B-2	
IC1603	B-4	
IC1701	D-3	
IC1702	D-3	
IC1703	E-4	
IC1704	E-3	
IC1706	D-4	
IC1801	B-1	
IC1802	C-1	
IC1803	C-2	
IC1804	C-1	
IC1805	B-5	

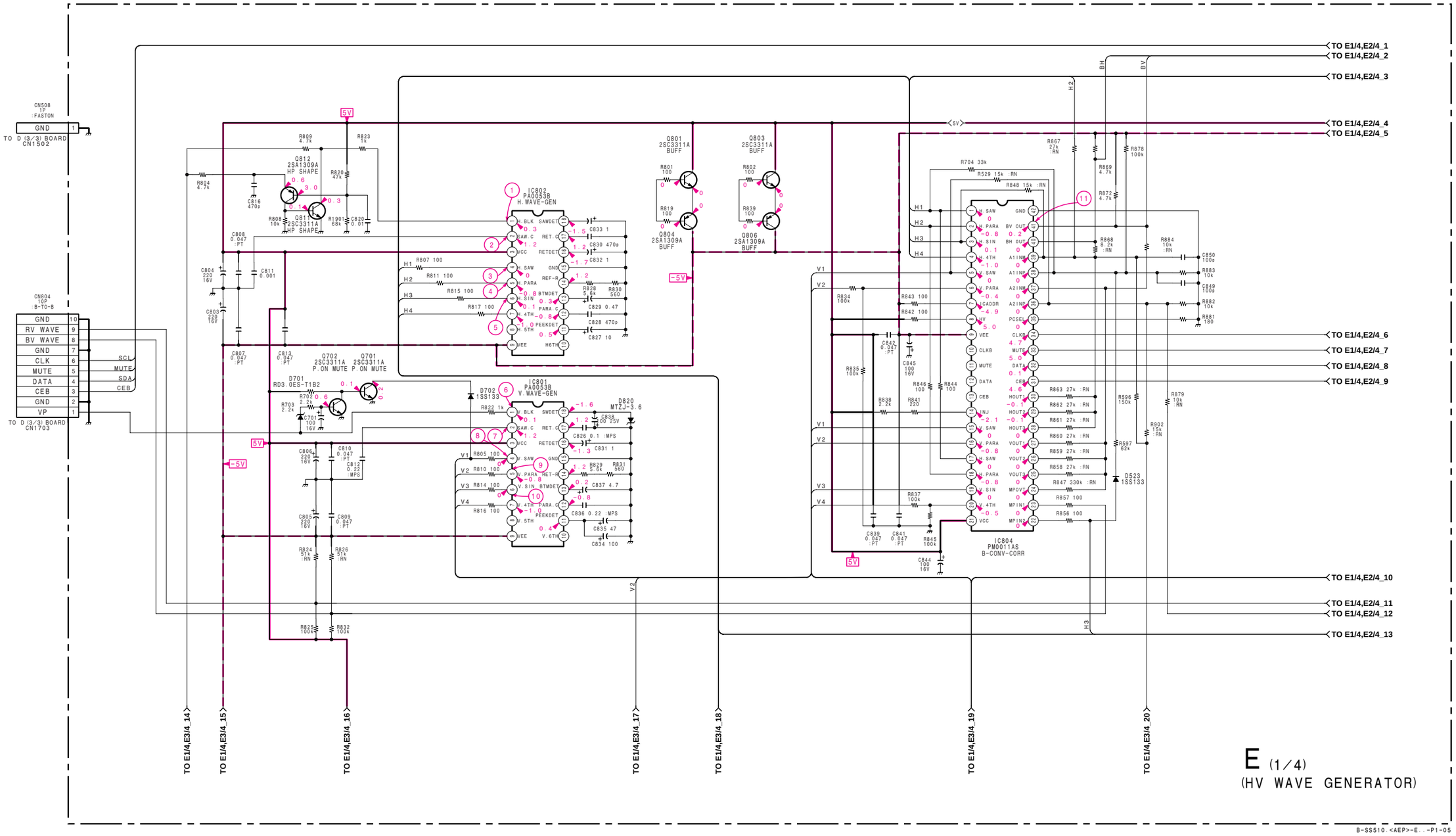
TRANSISTOR		*
Q1501	D-1	①
Q1502	D-1	①
Q1503	D-1	①
Q1505	D-2	①
Q1601	A-4	①
Q1602	B-2	①
Q1603	A-3	①
Q1604	A-2	①
Q1605	A-2	①
Q1607	A-1	①
Q1608	A-1	①
Q1609	A-2	①
Q1610	B-2	①
Q1611	B-2	①
Q1612	A-4	①
Q1613	A-3	①
Q1614	A-4	①
Q1615	A-2	①
Q1616	A-2	①
Q1617	A-2	①
Q1701	E-2	①
Q1702	E-2	①
Q1703	E-2	①
Q1704	D-2	①
Q1705	D-2	①
Q1706	D-4	①
Q1707	D-3	①
Q1708	D-3	①
Q1709	E-3	①
Q1710	C-3	①
Q1711	D-3	①
Q1801	E-4	①
Q1802	A-4	①
Q1803	A-4	①
Q1804	B-4	①
Q1805	B-4	①
Q1806	B-4	①
Q1807	B-4	①
Q1808	C-1	①
Q1809	C-1	①

DIODE		*
D1501	D-1	–
D1502	D-2	–
D1503	D-1	–
D1504	D-1	–
D1505	D-1	③
D1601	B-2	–
D1602	B-2	⑧
D1603	B-2	–
D1604	B-2	–
D1605	B-2	⑧
D1606	B-2	–
D1607	B-2	⑧
D1611	B-4	–
D1612	A-1	–
D1613	A-4	–
D1614	A-1	–
D1615	A-1	–
D1616	A-2	–
D1617	A-3	④
D1618	B-2	–
D1619	A-2	–
D1620	A-3	④
D1621	A-2	④
D1622	A-2	④
D1703	D-3	–
D1704	D-3	–
D1705	E-4	–
D1706	E-4	–
D1707	E-3	–
D1708	E-3	–
D1709	E-3	–
D1710	E-3	–
D1711	E-3	–
D1712	E-3	–
D1801	E-4	–
D1802	E-4	–
D1803	E-5	–
D1804	E-4	–
D1805	E-5	–
D1806	E-5	–

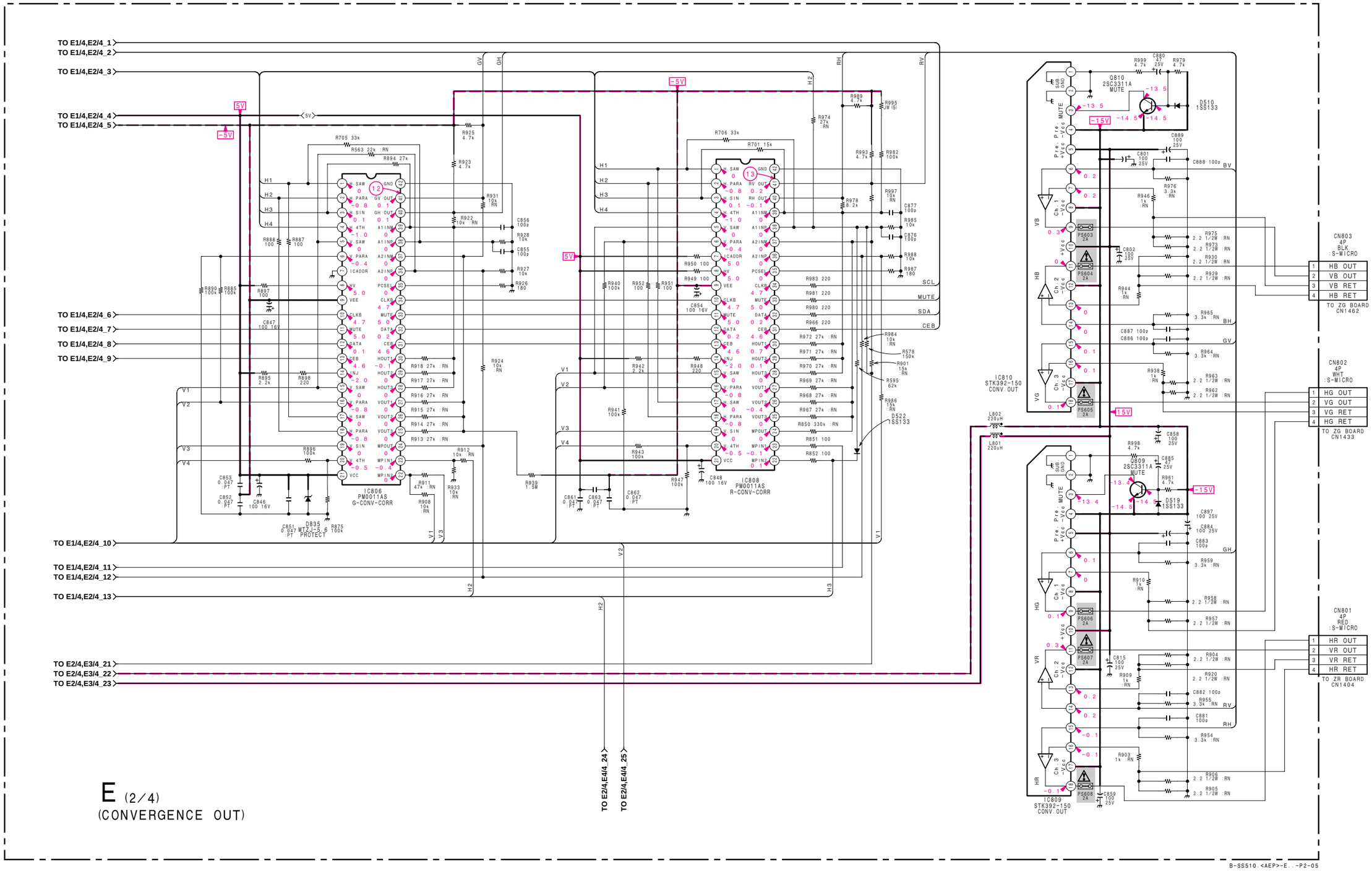
CRYSTAL		
X1701	D-4	

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

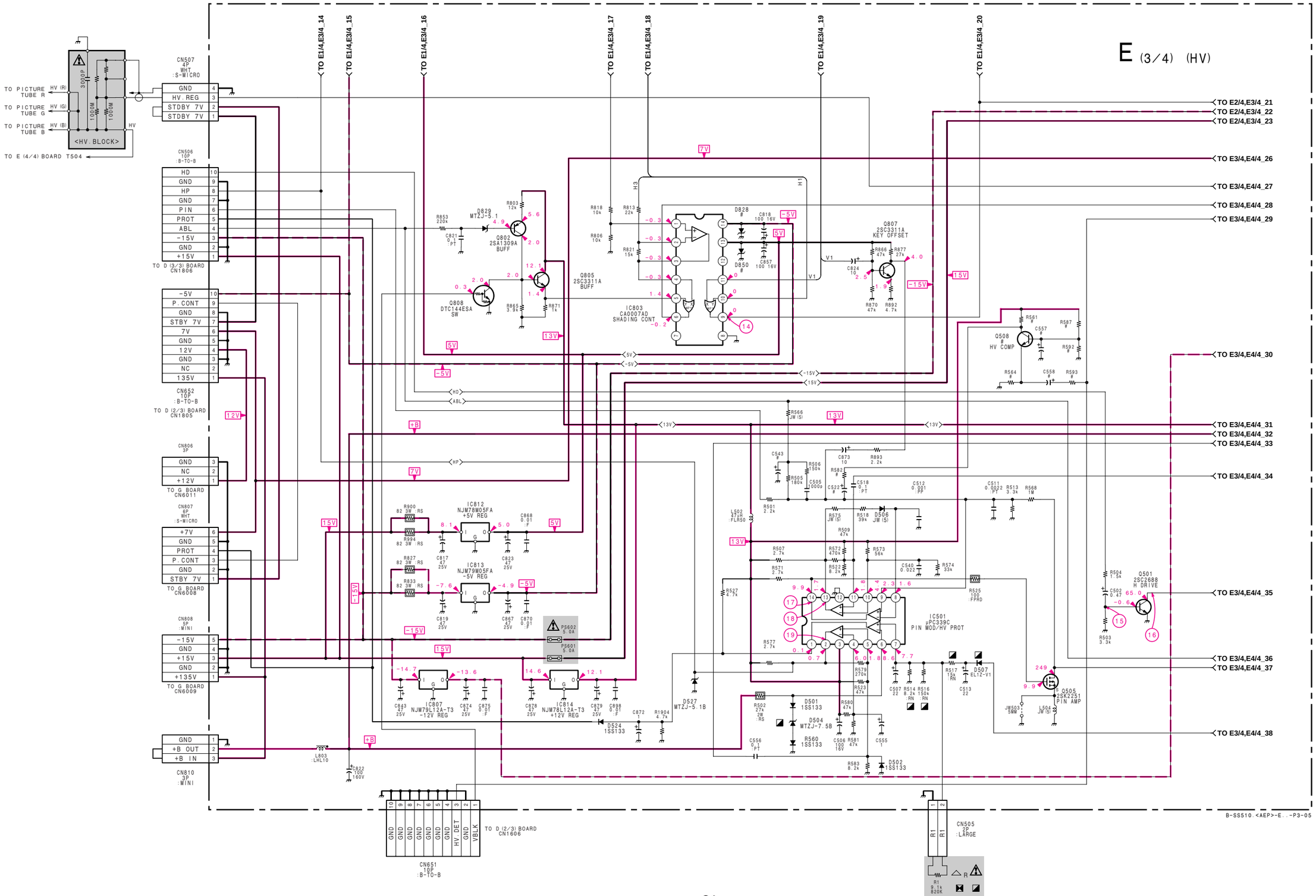
(14) Schematic Diagram of E (1/4) Board



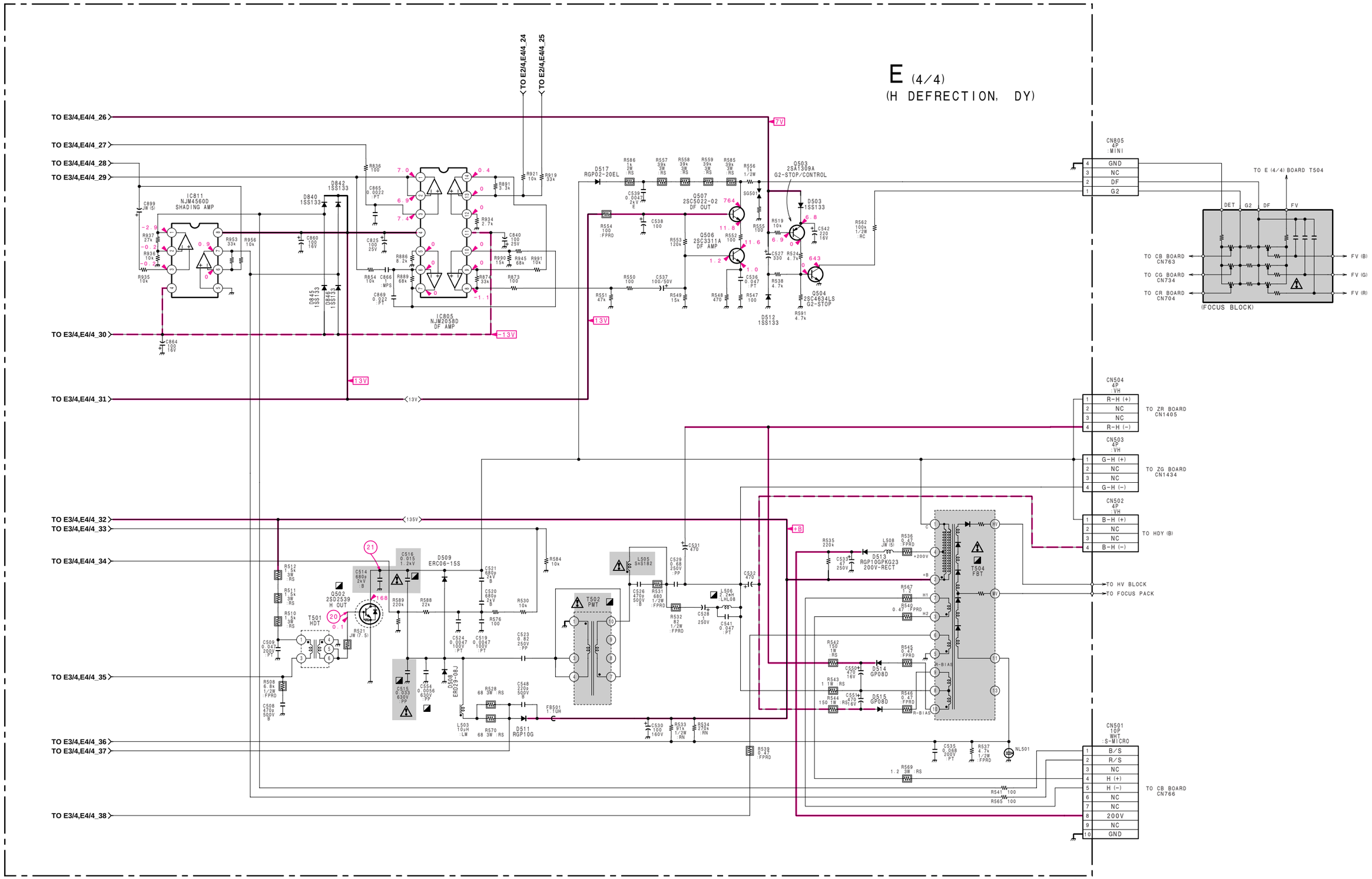
(15) Schematic Diagram of E (2/4) Board



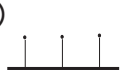
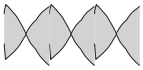
(16) Schematic Diagram of E (3/4) Board



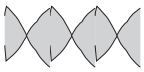
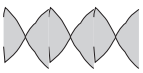
(17) Schematic Diagram of E (4/4) Board



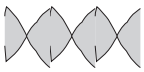
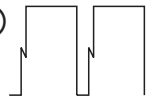
• **E (1/4) BOARD WAVEFORMS**

①  4.7 Vp-p (H)	②  2.5 Vp-p (H)	③  2.5 Vp-p (H)	④  2.4 Vp-p (H)	⑤  2.2 Vp-p (H)	⑥  4.7 Vp-p (V)
⑦  2.5 Vp-p (V)	⑧  2.4 Vp-p (V)	⑨  2.4 Vp-p (V)	⑩  2.3 Vp-p (V)	⑪  2.3 Vp-p (V)	

• **E (2/4) BOARD WAVEFORMS**

⑫  1.6 Vp-p (V)	⑬  2.3 Vp-p (V)

• **E (3/4) BOARD WAVEFORMS**

⑭  1.4 Vp-p (V)	⑮  2.5 Vp-p (H)	⑯  89.5 Vp-p (H)	⑰  12.4 Vp-p (H)	⑱  11.3 Vp-p (H)	⑲  4.7 Vp-p (H)

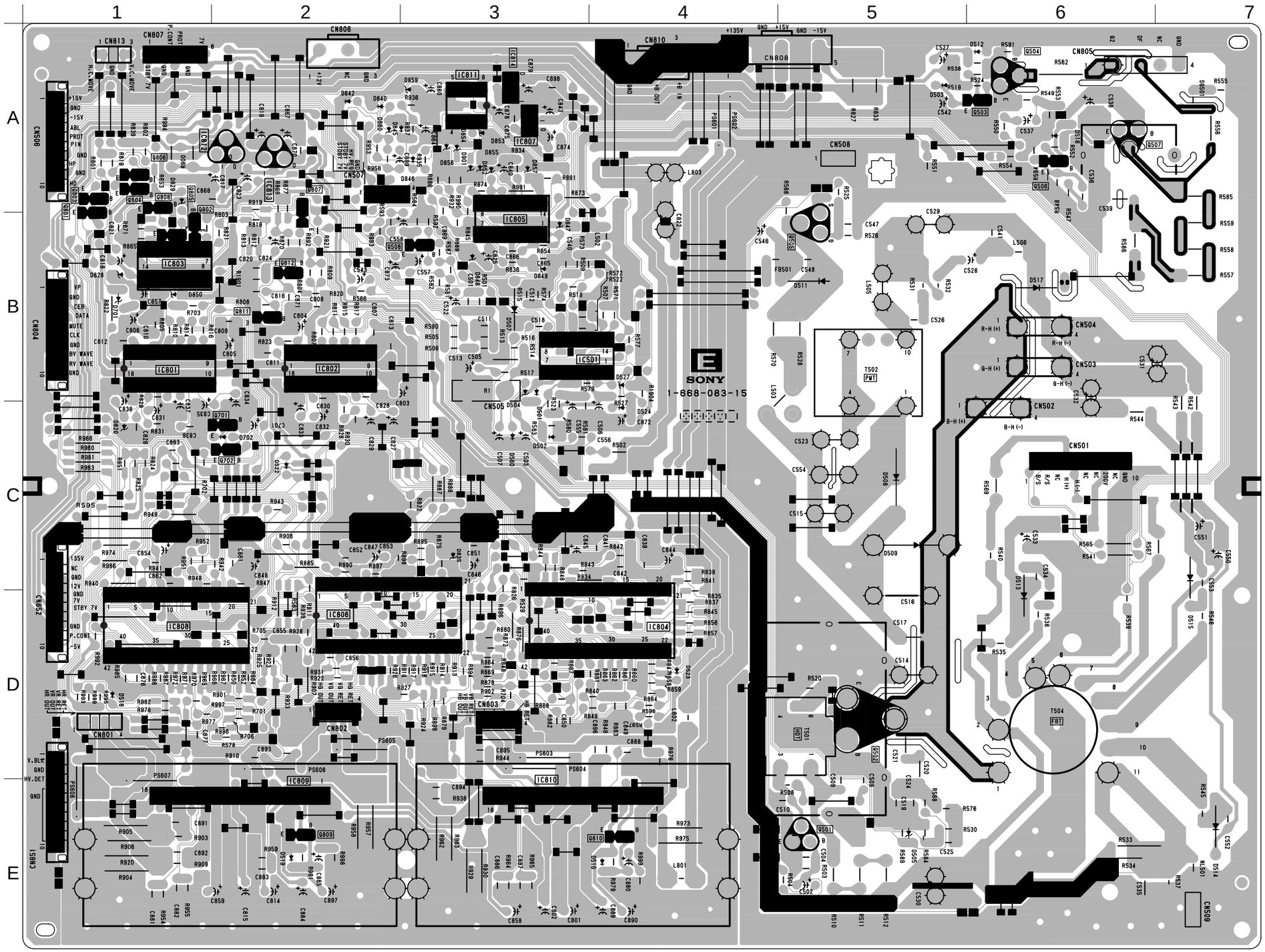
• **E (4/4) BOARD WAVEFORMS**

⑳  10.9 Vp-p (H)	㉑  1100 Vp-p (H)

E [H DEFRECTION, HV, DY DRIVE]

— E BOARD —

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

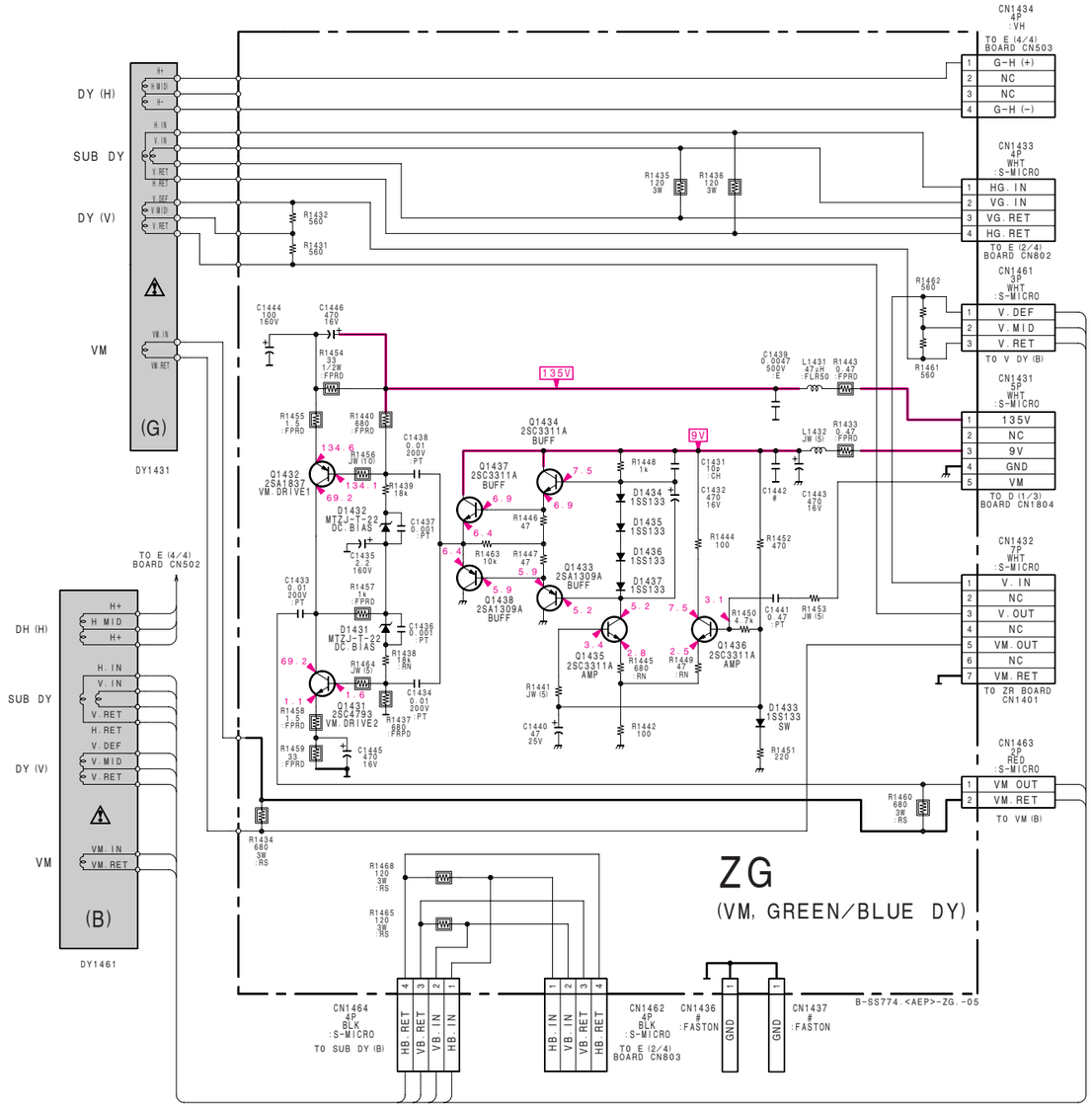


- **E BOARD SEMICONDUCTOR LOCATION**

IC		TRANSISTOR	
IC501	B-3	Q501	E-5
IC801	B-1	Q502	D-5
IC802	B-2	Q503	A-6
IC803	B-1	Q504	A-6
IC804	D-4	Q505	B-5
IC805	B-3	Q506	A-6
IC806	D-2	Q507	A-6
IC807	A-3	Q701	C-1
IC808	D-1	Q702	C-1
IC809	E-2	Q801	A-1
IC810	E-3	Q802	B-1
IC811	A-3	Q803	A-1
IC812	A-2	Q804	A-1
IC813	A-2	Q805	B-1
IC814	A-3	Q806	A-1
		Q807	A-2
		Q808	A-1
		Q809	E-2
		Q810	E-4
		Q811	B-2
		Q812	B-2

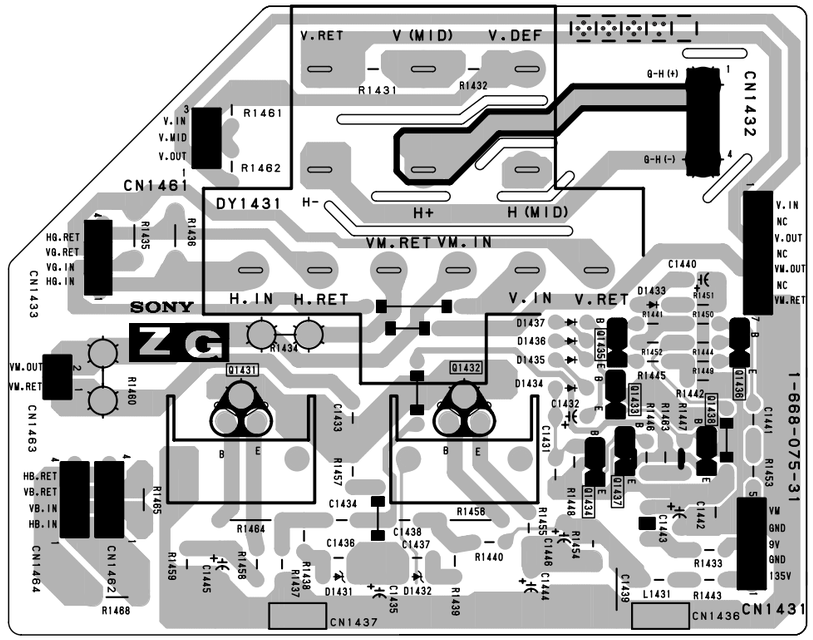
DIODE	
D501	B-3
D502	C-3
D503	A-5
D504	B-3
D507	B-3
D508	C-5
D509	C-5
D510	E-4
D511	B-5
D512	A-6
D513	C-6
D514	E-7
D515	C-7
D517	B-6
D519	E-2
D522	C-2
D523	D-4
D524	C-4
D527	B-4
D560	C-3
D701	B-1
D702	C-2
D820	C-1
D829	A-1
D835	C-3
D840	A-2
D842	A-2
D845	A-2
D846	A-3

(18) Schematic Diagram of ZG Board



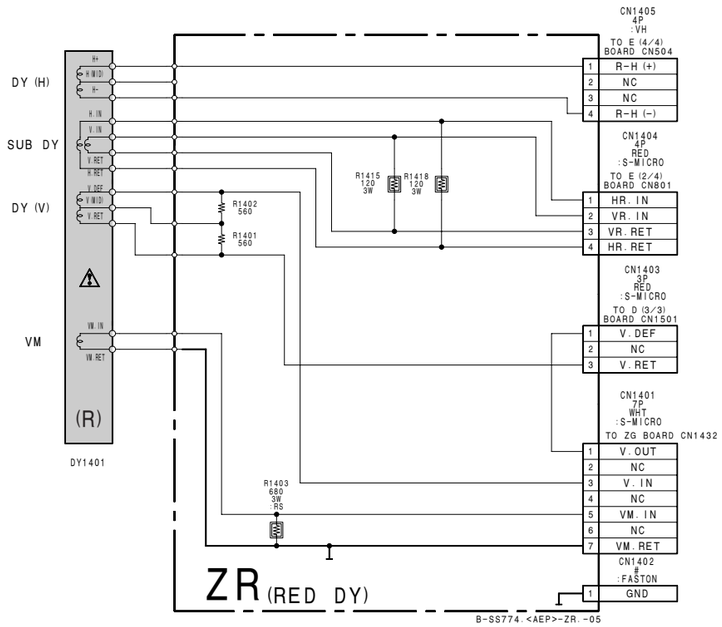
ZG [VM, GREEN/BLUE DY]

— ZG BOARD —



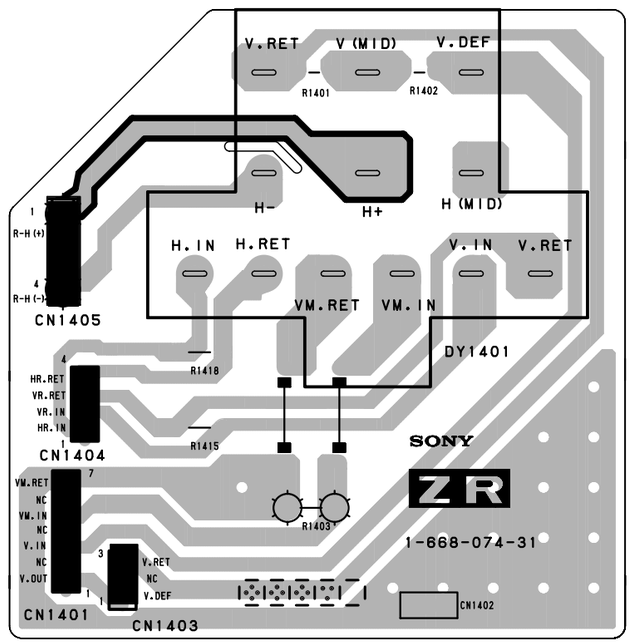
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(19) Schematic Diagram of ZR Board



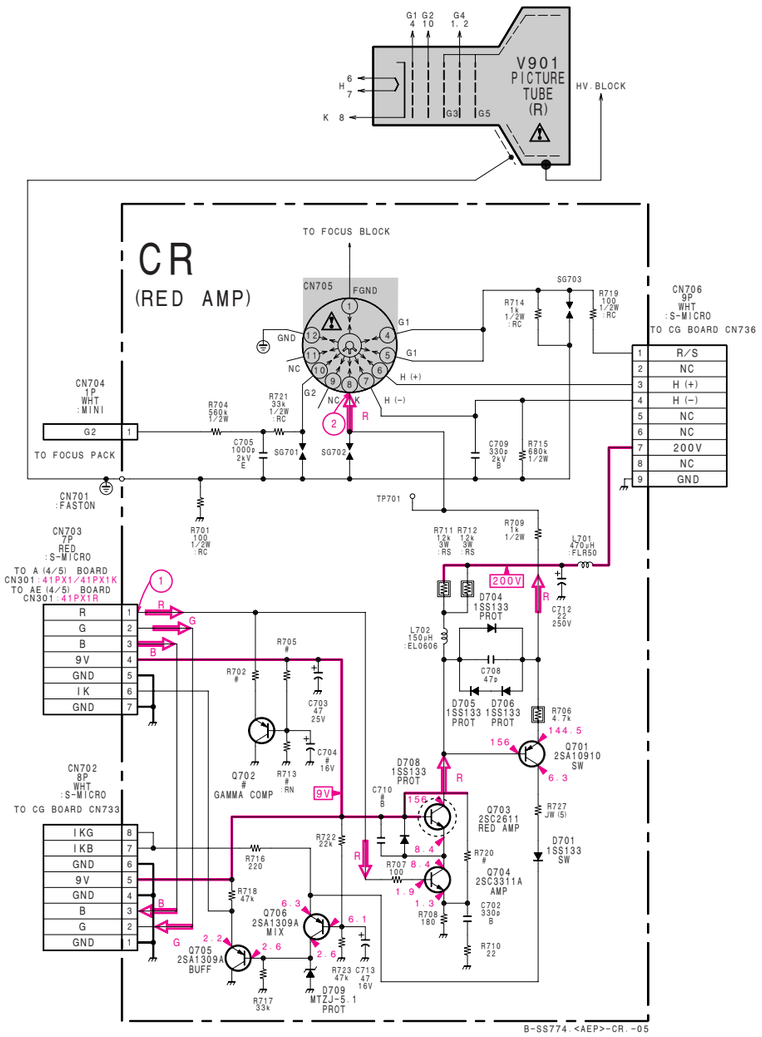
ZR [RED DY]

— ZR BOARD —



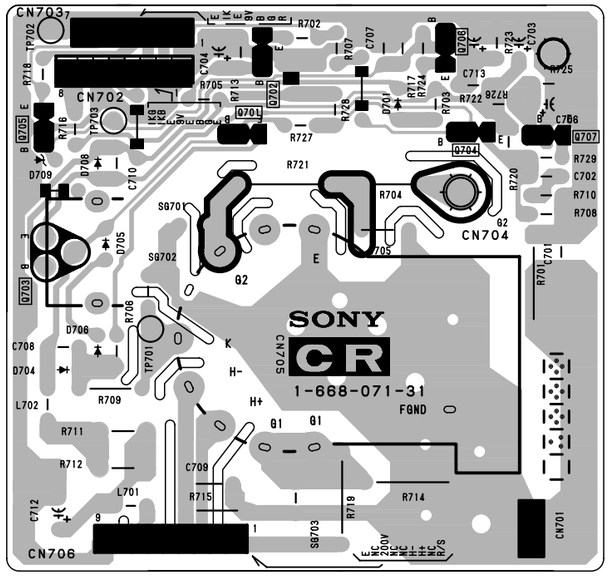
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(20) Schematic Diagram of CR Board



CR [RED AMP]

— CR BOARD —



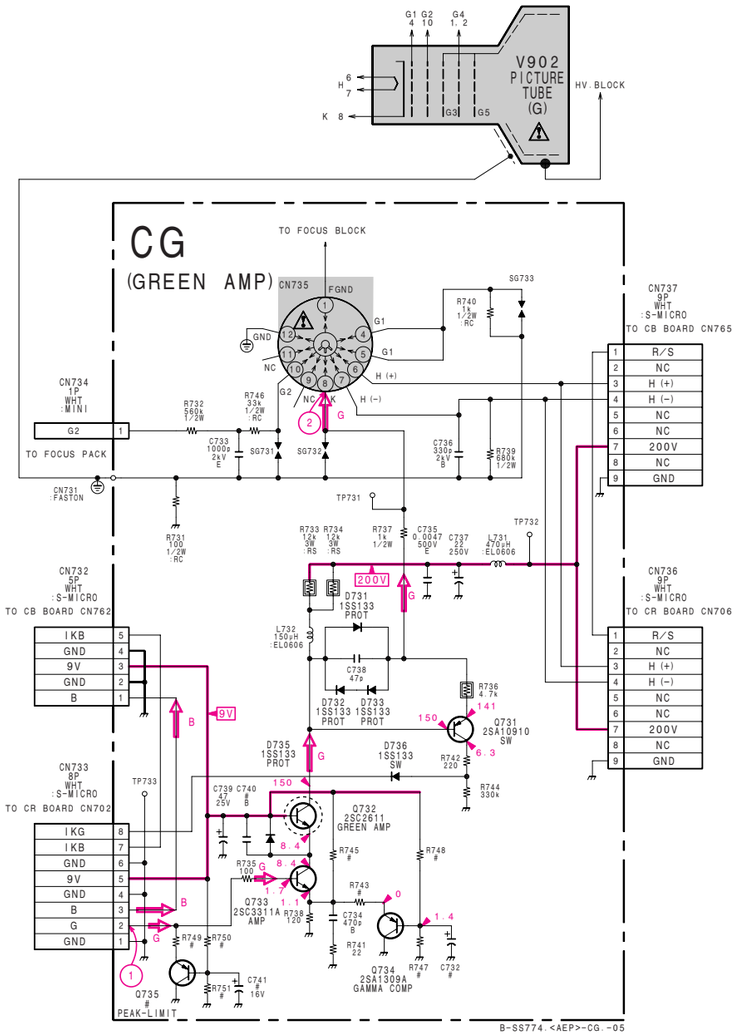


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• CR BOARD WAVEFORMS

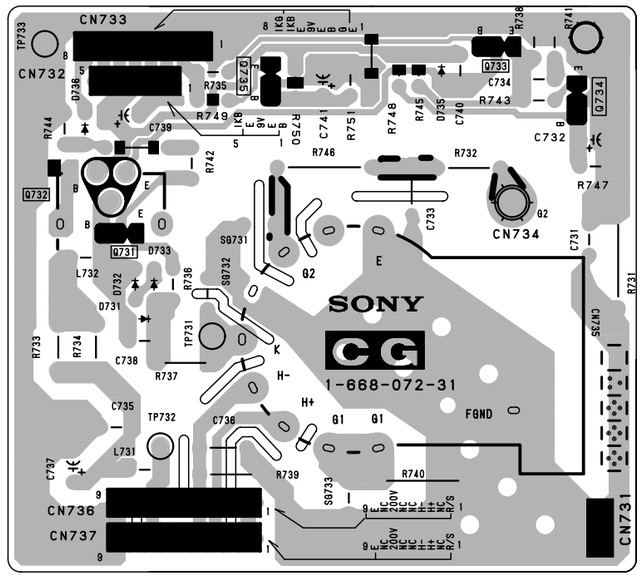
①	②
3.5 Vp-p (H)	94.0 Vp-p (H)

(21) Schematic Diagram of CG Board



CG [GREEN AMP]

— CG BOARD —

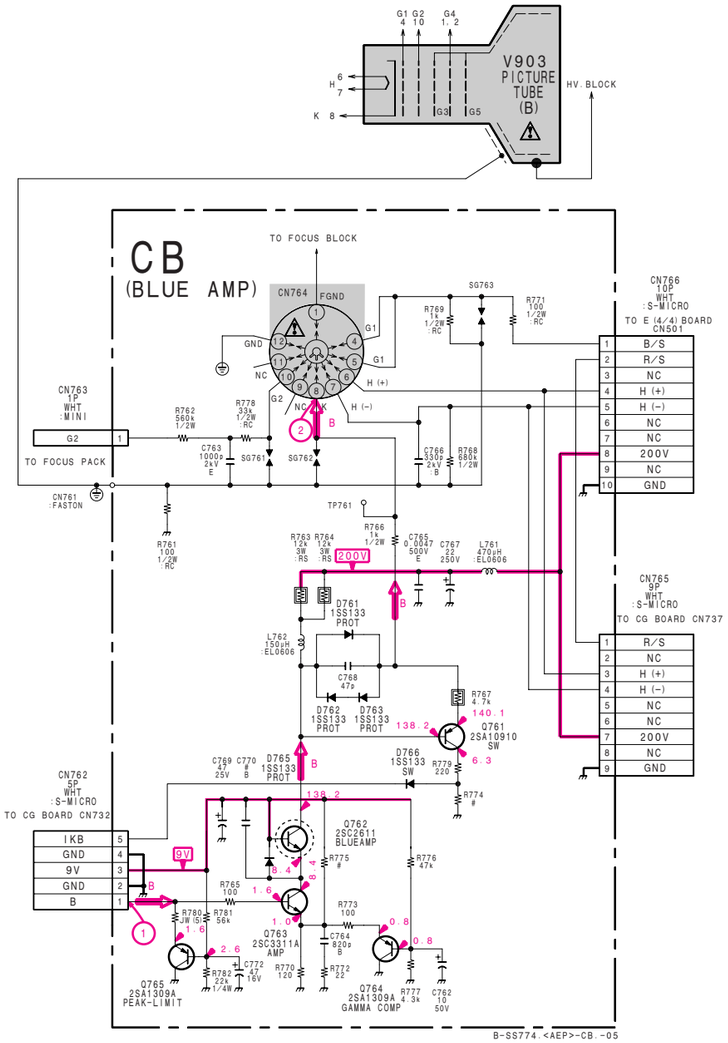


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• CG BOARD WAVEFORMS

①	②
3.5 Vp-p (H)	126 Vp-p (H)

(22) Schematic Diagram of CB Board

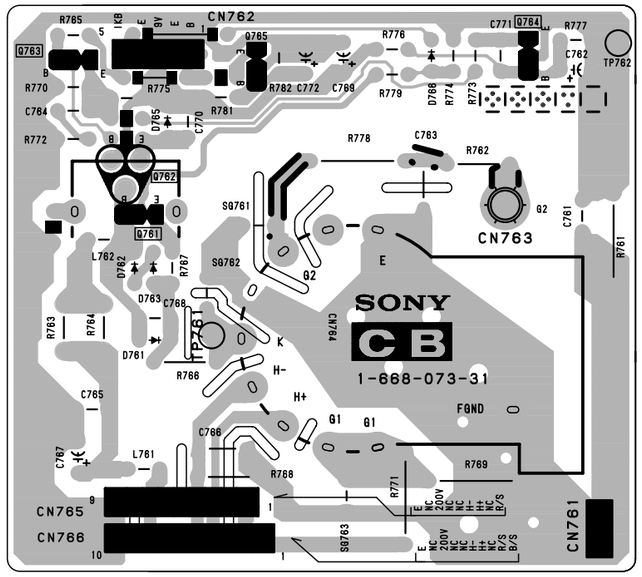


• CB BOARD WAVEFORMS

①	②
3.5 Vp-p (H)	117 Vp-p (H)

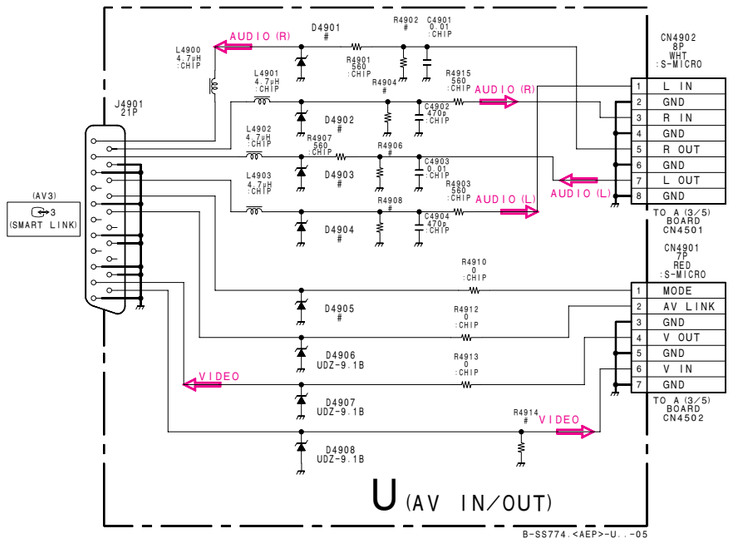
CB ［BLUE AMP］

— CB BOARD —



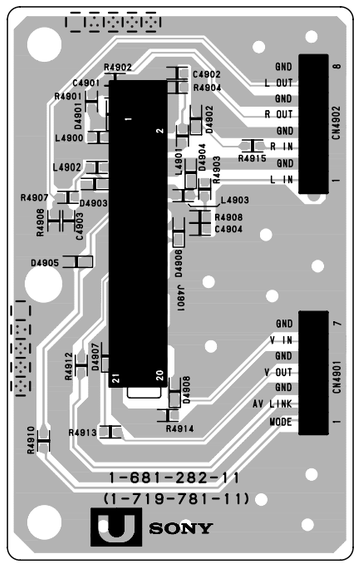
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(23) Schematic Diagram of U Board (41PX1/41PX1K)



U [AV IN/OUT]

— U BOARD — (41PX1/41PX1K)



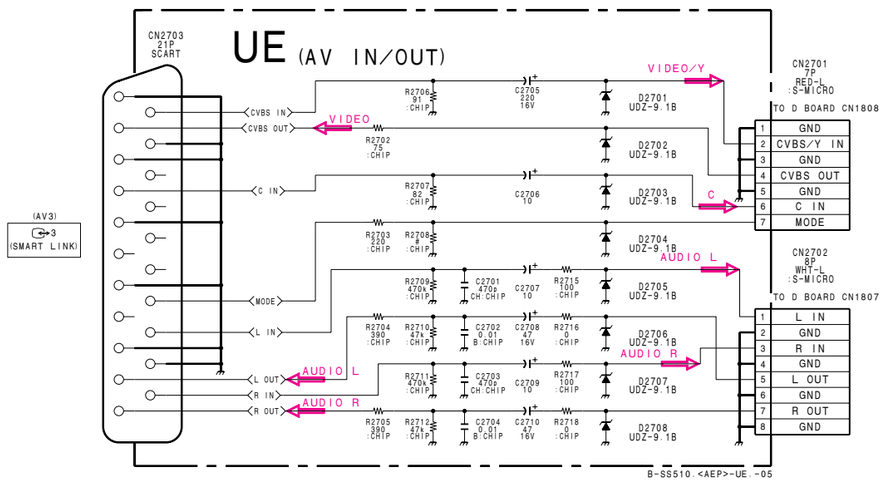
U BOARD

Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D4906 – D4908	③

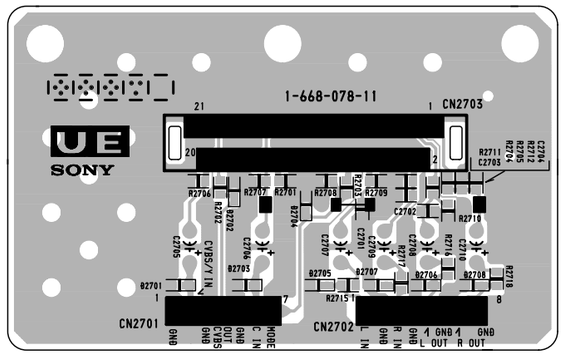
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

(24) Schematic Diagram of UE Board (41PX1R)



UE [AV IN/OUT]

— UE BOARD — (41PX1R)

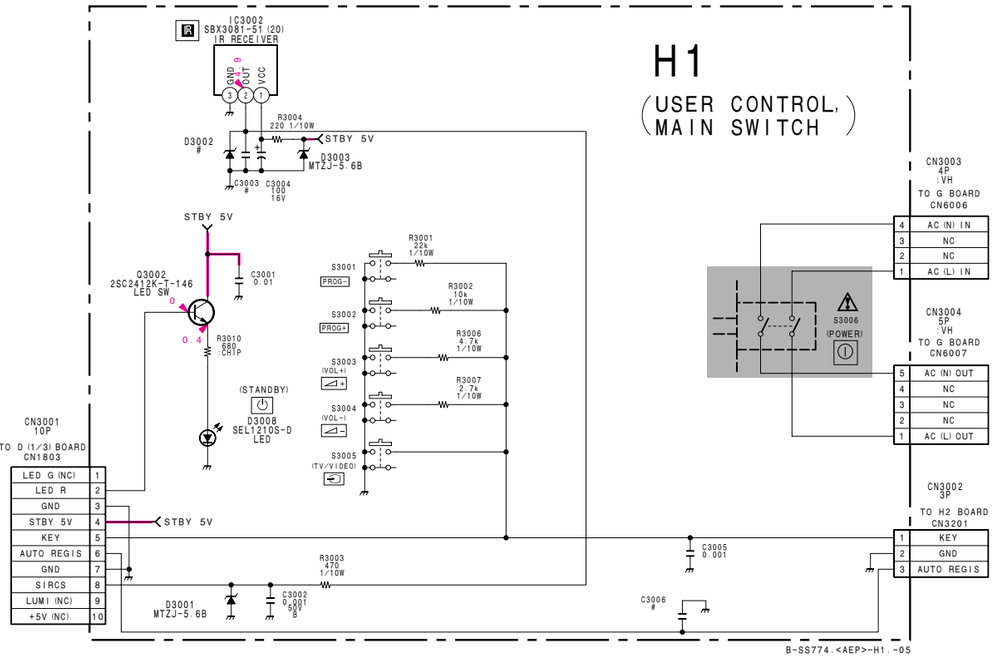


UE BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D2701 – D2708	③

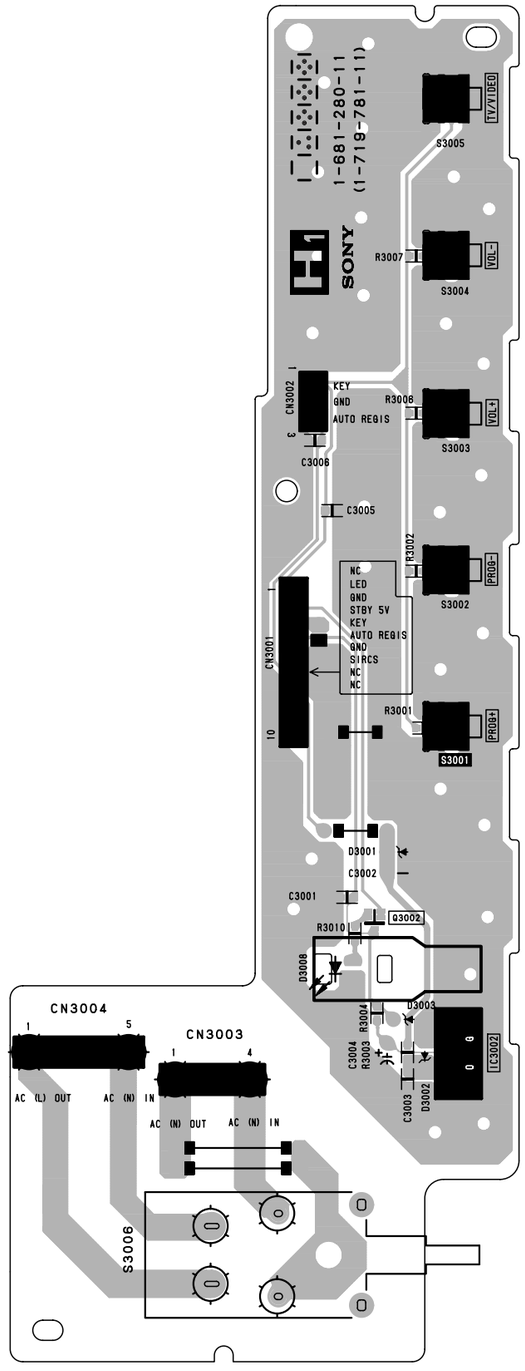
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

(25) Schematic Diagram of H1 Board



H1 [USER CONTROL, MAIN SWITCH]

— H1 BOARD —

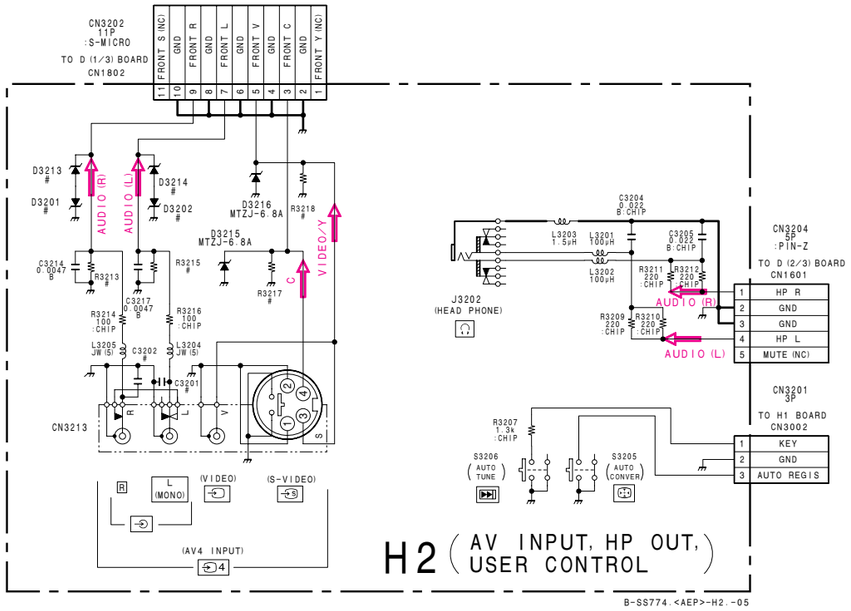


H1 BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
Q3002	①

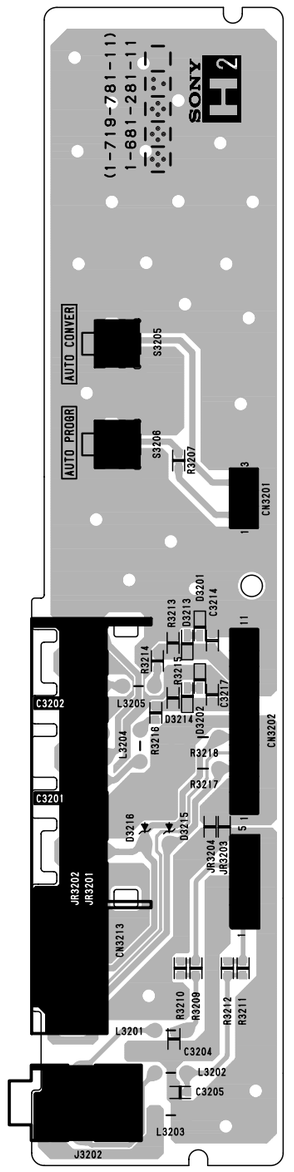
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

(26) Schematic Diagram of H2 Board

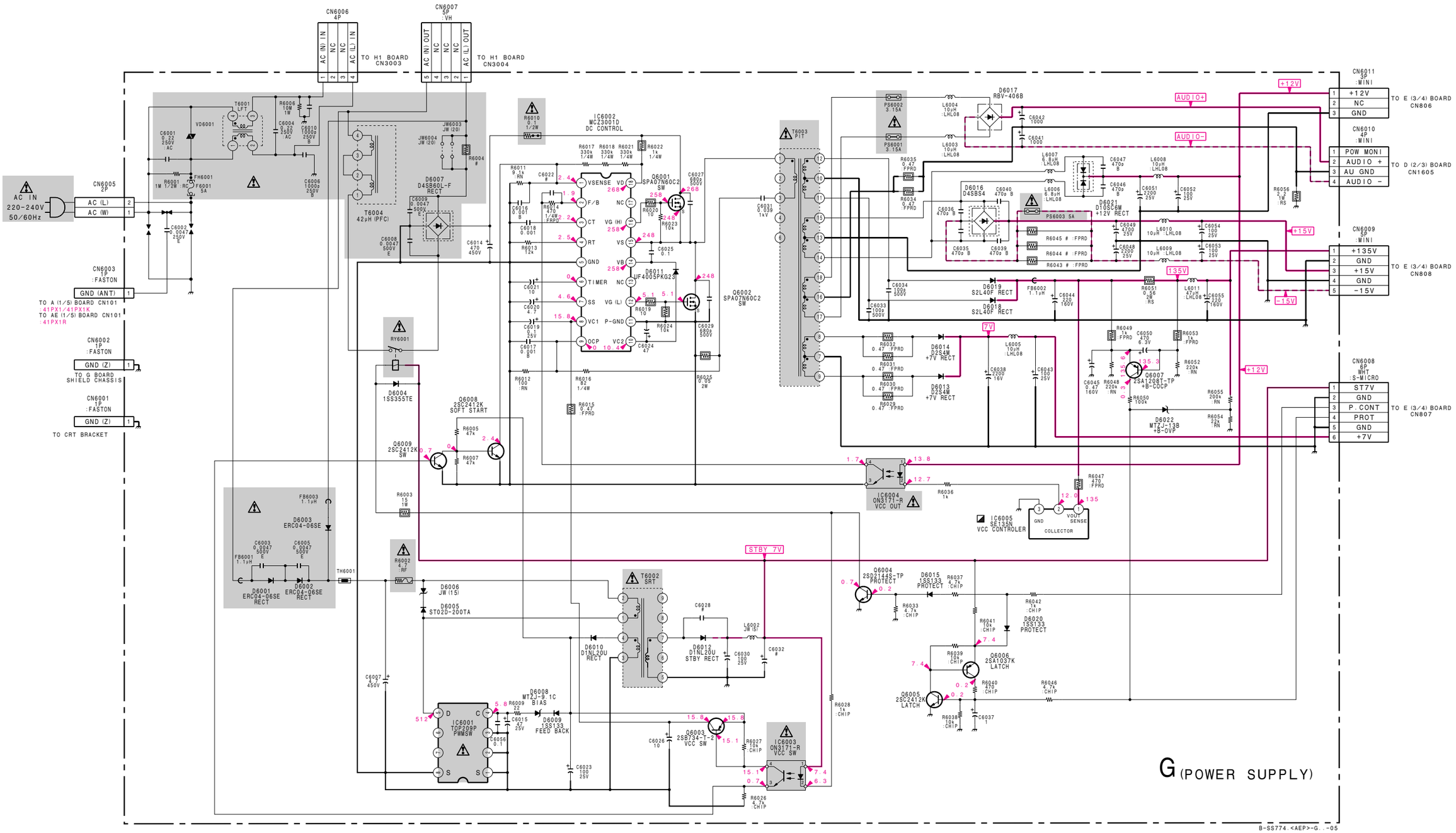


H2 [AV INPUT, HP OUT, USER CONTROL]

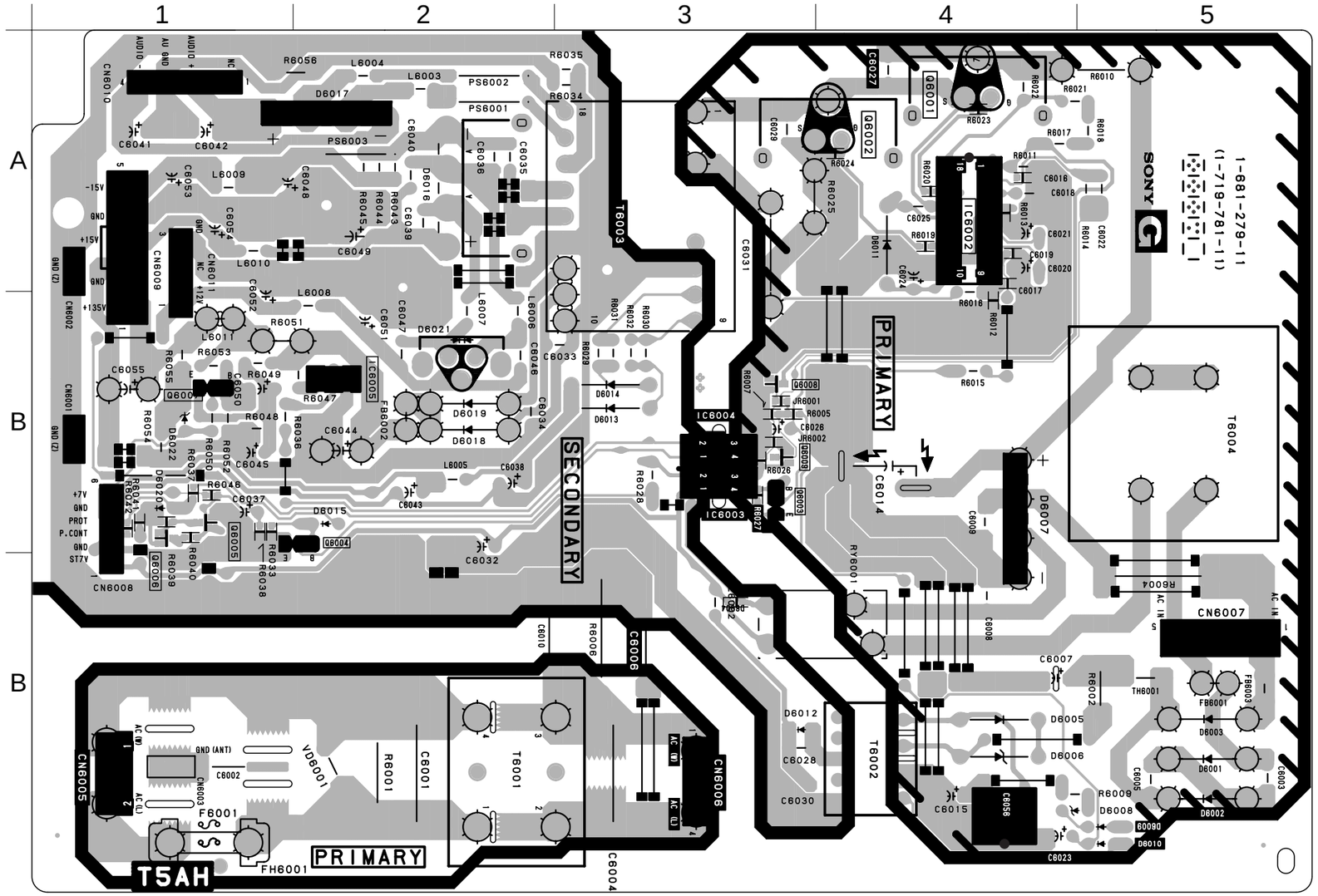
— H2 BOARD —



(27) Schematic Diagram of G Board



G [POWER SUPPLY]



- **G BOARD SEMICONDUCTOR LOCATION**

IC	
IC6001	
IC6002	A-4
IC6003	B-3
IC6004	B-3
IC6005	B-2

TRANSISTOR		*
Q6001	A-4	–
Q6002	A-4	–
Q6003	B-3	–
Q6004	B-2	–
Q6005	B-1	①
Q6006	B-1	①
Q6007	B-1	–
Q6008	B-3	①
Q6009	B-3	①

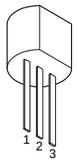
DIODE		*
D6001	C-5	–
D6002	C-5	–
D6003	C-5	–
D6004	C-3	③
D6005	C-4	–
D6007	B-4	–
D6008	C-4	–
D6009	C-5	–
D6010	C-5	–
D6011	A-4	–
D6012	C-3	–
D6013	B-3	–
D6014	B-3	–
D6015	B-2	–
D6016	A-2	–
D6017	A-2	–
D6018	B-2	–
D6019	B-2	–
D6020	B-1	–
D6021	B-2	–
D6022	B-1	–

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

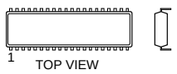
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

7-5. SEMICONDUCTORS

AN77L12-TA
NJM78L12A-T3
NJM79L12A
NJM79L12A-T3

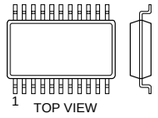


CA0007AD
NJM2058D
µPC339C



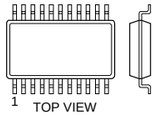
14pin DIP

CA0007AM
MC14066BF
MC14066BFEL



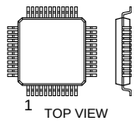
14pin SOP

CXA1315M
CXA1315M-T4
TDA4665T/V5-118



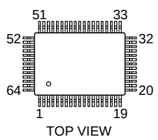
16pin SOP

CXA2040AQ-T4

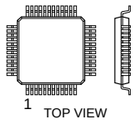


32pin QFP

CXA2076Q-TL

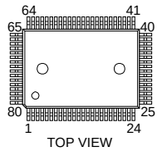


CXA2089Q-T6
CXD2064Q-T6

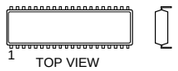


48pin QFP

CXD2044Q-TL

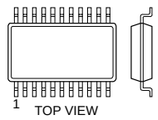


CXP86213-003S



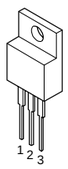
52pin DIP

LM358D
LM358DR
M24C08-MN6T(A)
M24C32-MN6T
NJM2240M
NJM2240M (TE2)

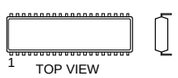


8pin SOP

L7812CV
LM2940CT-5.0
NJM78M05FA
PQ09RF2

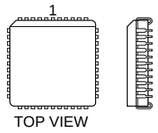


MCZ3001D
PA0053B



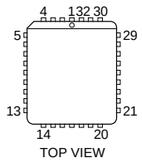
18pin DIP

MSP3410D-C5-PS-B4
MSP3411G-PS-B8
SDA5273-3CP-C55-22-GEG

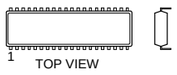


68pin QFJ

M27C2001-12C1-PZ01
M27C2001-12C1-RR403

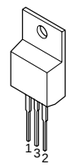


NJM4560D
RC4560D
TDA2822M
TDA7264
TOP209P

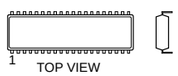


8pin DIP

NJM79M05FA

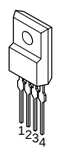


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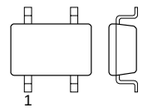


42pin DIP

PQ05RF11

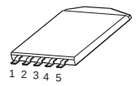


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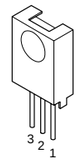


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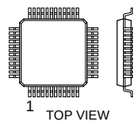
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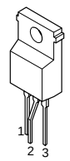


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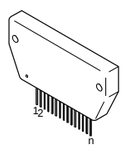


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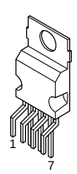


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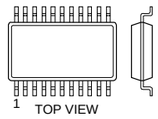


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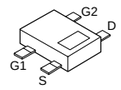


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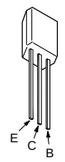
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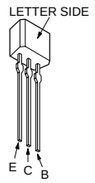
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DTC144EKA
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2SC2412K-T-146-QR



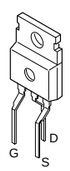
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2SD2144S-UVW



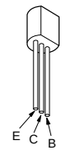
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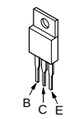
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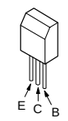
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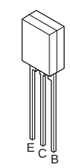
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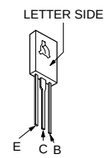
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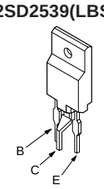
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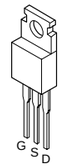
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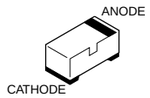
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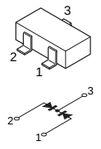
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BAS216



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DAN202K-T-146



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UDZSTE-175.6B
UDZSTE-176.8B
UDZSTE-179.1B
1SS355TE-17

D1NL20U-TR2
EL1Z
EL1Z-V1
GP08D
GP08DPKG23
MTZJ-T-77-5.6B
MTZJ-T-77-9.1A
MTZJ-T-77-9.1C
RGP02-20EL-6394
RGP10GPKG23
S2L40F
ST02D-200TA
UF4005PKG23

D10SC6M-4012

D2S4M

D4SB60L-F
D4SBS4
D4SBS4-F
RBA-406B
RBV-406B

ERC04-06SE
ERC06-15S

ERD29-08J

MA3030-H(TX)
MA3240-TX

MTZJ-13
MTZJ-13B
MTZJ-7.5B
MTZJ-T-77-13
MTZJ-T-77-13B
MTZJ-T-77-22
MTZJ-T-77-3.6
MTZJ-T-77-5.1
MTZJ-T-77-5.1B
MTZJ-T-77-5.6
MTZJ-T-77-6.8B
MTZJ-T-77-7.5B
MTZJ-T-77-9.1
RD3.0ES-T1B2
RD3.0ESB2
RD3.6ESB1
RD4.7ES-T1B
RD4.7ESB2
RD5.1ESB1
RD5.1ESB2
RD5.6ESB2
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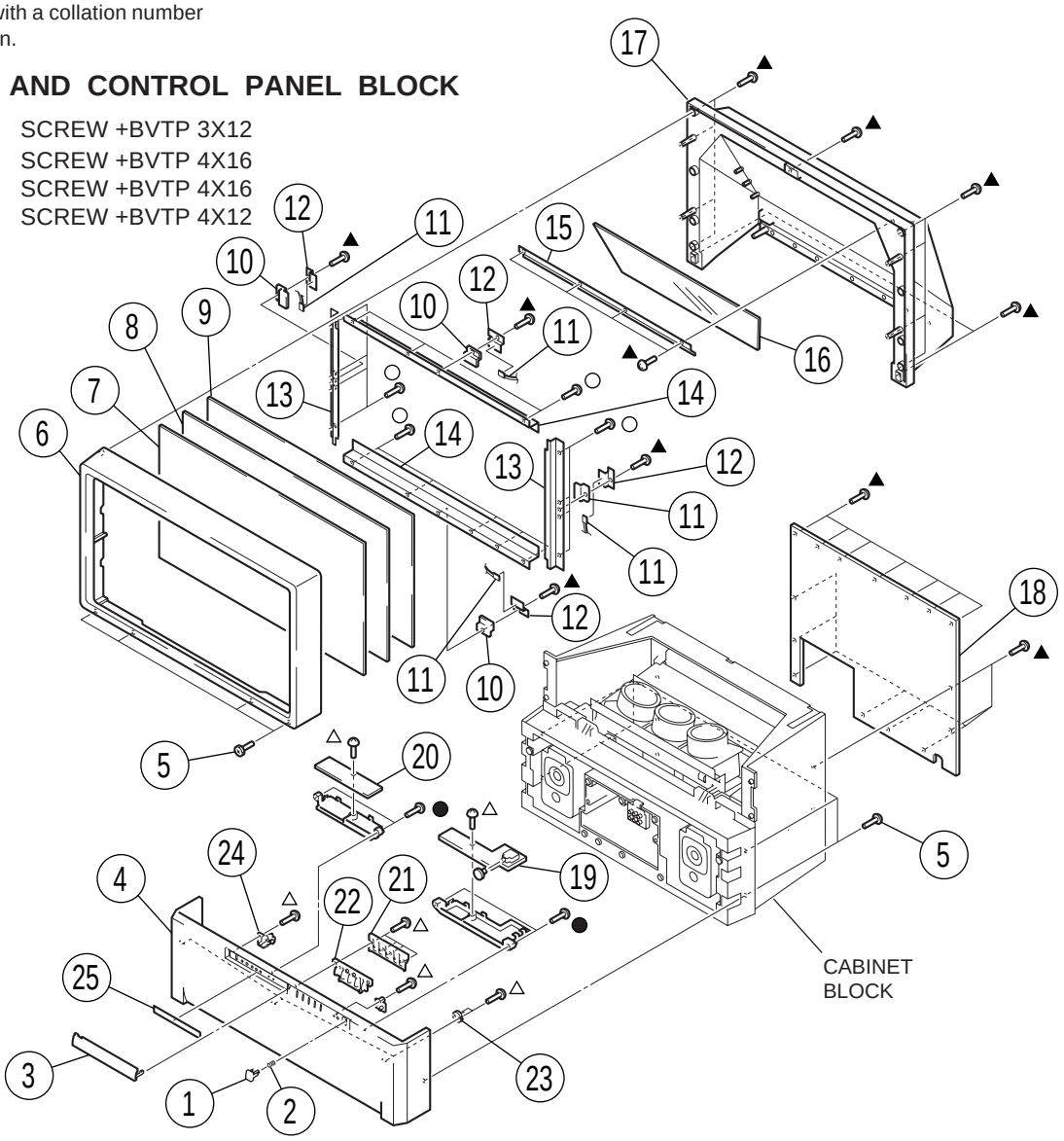
SECTION 8
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

8-1. SCREEN AND CONTROL PANEL BLOCK

△ : 7-685-648-71 SCREW +BVTP 3X12
● : 7-685-663-71 SCREW +BVTP 4X16
▲ : 7-685-663-79 SCREW +BVTP 4X16
○ : 7-685-661-79 SCREW +BVTP 4X12

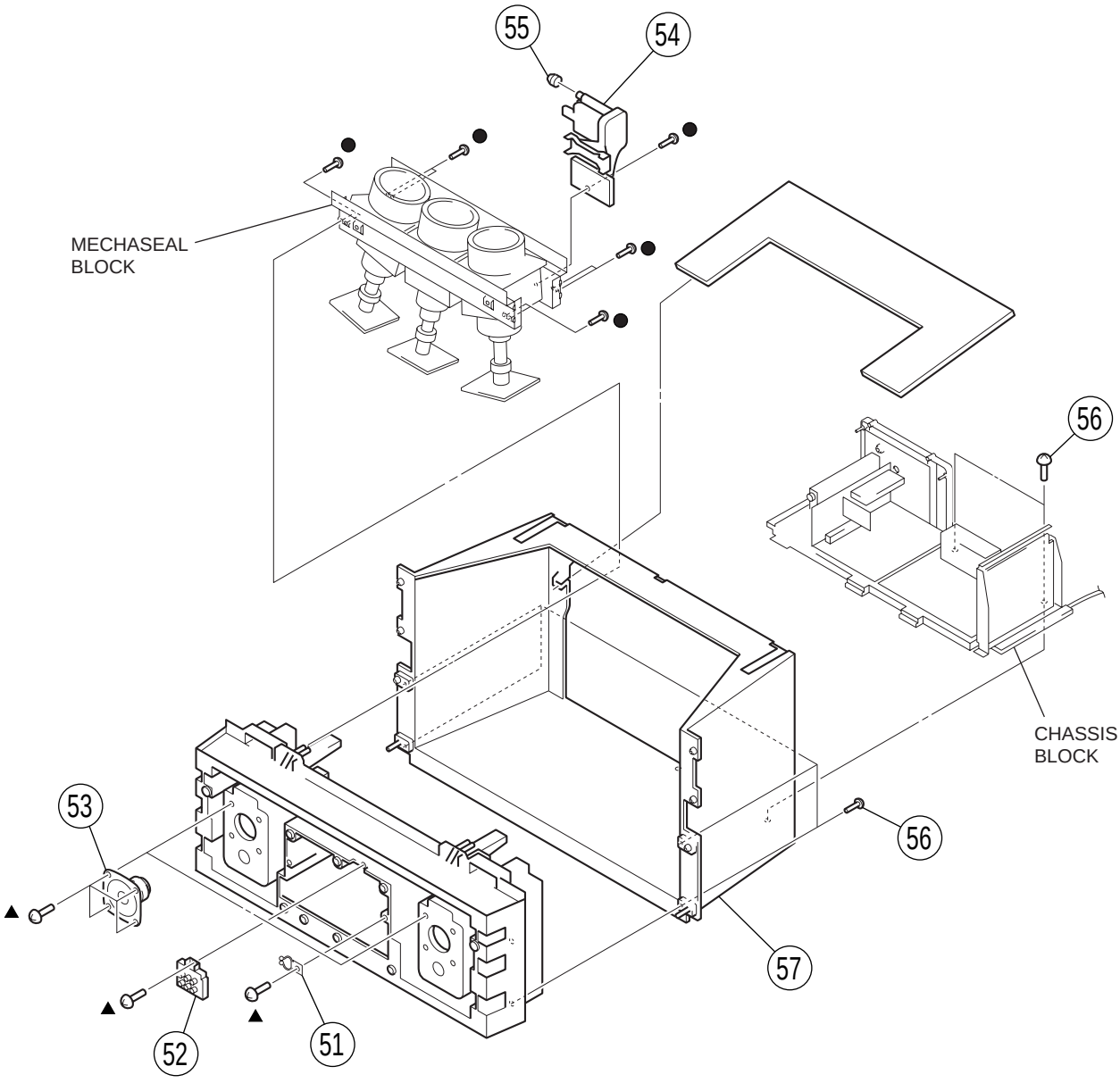


REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-206-033-01	BUTTON POWER	
2	4-202-964-01	SPRING	
3	4-206-036-01	DOOR, CONTROL	
4	X-4200-708-1	GRILLE ASSY, SPEAKER	
5	4-378-522-31	SCREW, TAPPING, HEXAGON	
6	X-4200-706-1	BEZNET ASSY	
7	4-063-365-11	SCREEN, CONTRAST	
8	4-070-236-11	PLATE (L), DIFFUSION	
9	4-070-358-11	PLATE (F), DIFFUSION	
10	* 4-205-155-01	COVER, SENSOR	
11	1-528-864-12	BATTERY, SOLAR	
12	* 4-066-132-01	HOLDER, SENSOR	
13	* 4-066-126-01	HOLDER (V), SCREEN	
14	* 4-063-160-01	HOLDER (H), SCREEN	
15	* 4-066-129-01	HOLDER, MIRROR	
16	4-206-414-01	MIRROR (41)	
17	* 4-062-540-11	COVER, MIRROR	
18	* 4-063-177-01	BOARD (41), REAR	
19	* A-1646-237-A	H1 BOARD, COMPLETE	
20	* A-1646-238-A	H2 BOARD, COMPLETE	
21	4-206-034-01	BUTTON, MULTI	
22	4-206-035-01	COVER, MULTI BUTTON	
23	4-054-709-01	STRIKE	
24	4-076-673-03	DAMPER, DOOR	
25	4-206-030-01	LABEL CONTROL	

8-2. CABINET BLOCK

● : 7-685-663-71 SCREW +BVTP 4X16
▲ : 7-685-663-79 SCREW +BVTP 4X16

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

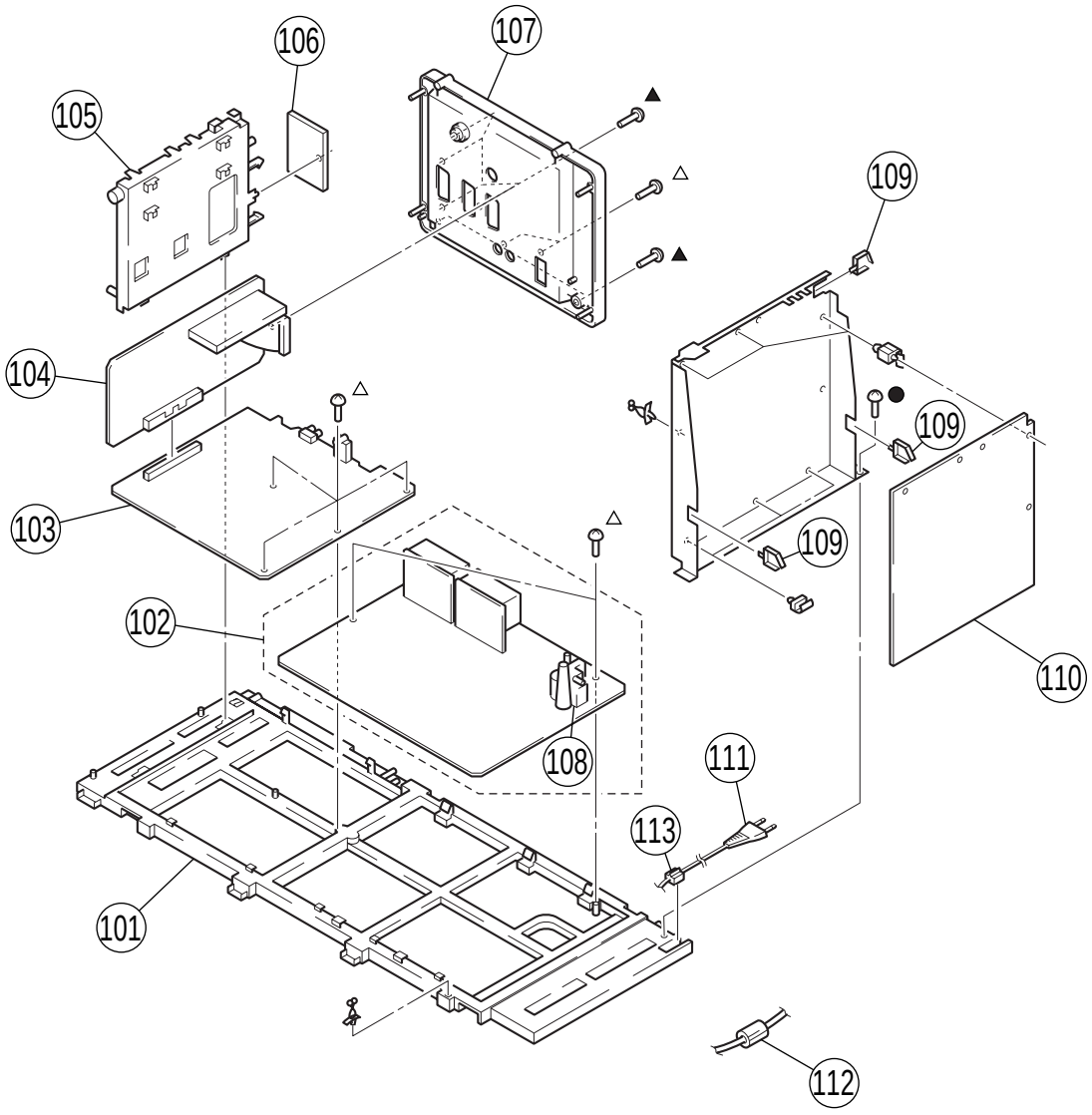


REF.NO.	PART NO.	DESCRIPTION	REMARK
51	*4-063-176-01	HOLDER, HVR	
52	⚠1-223-925-71	RESISTOR ASSY (HIGH-VOLTAGE)	(FOCUS PACK)
53	1-505-426-11	SPEAKER (10.6 CM)	
54	⚠8-598-955-13	BLOCK ASSY, HIGH-VOLTAGE	
55	4-373-137-02	CAP (Z), RUBBER	
56	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
57	4-062-539-11	CABINET (REAR)	

8-3. MAIN BRACKET BLOCK

△ : 7-685-648-71 SCREW +BVTP 3X12
● : 7-685-663-71 SCREW +BVTP 4X16
▲ : 7-685-663-79 SCREW +BVTP 4X16

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

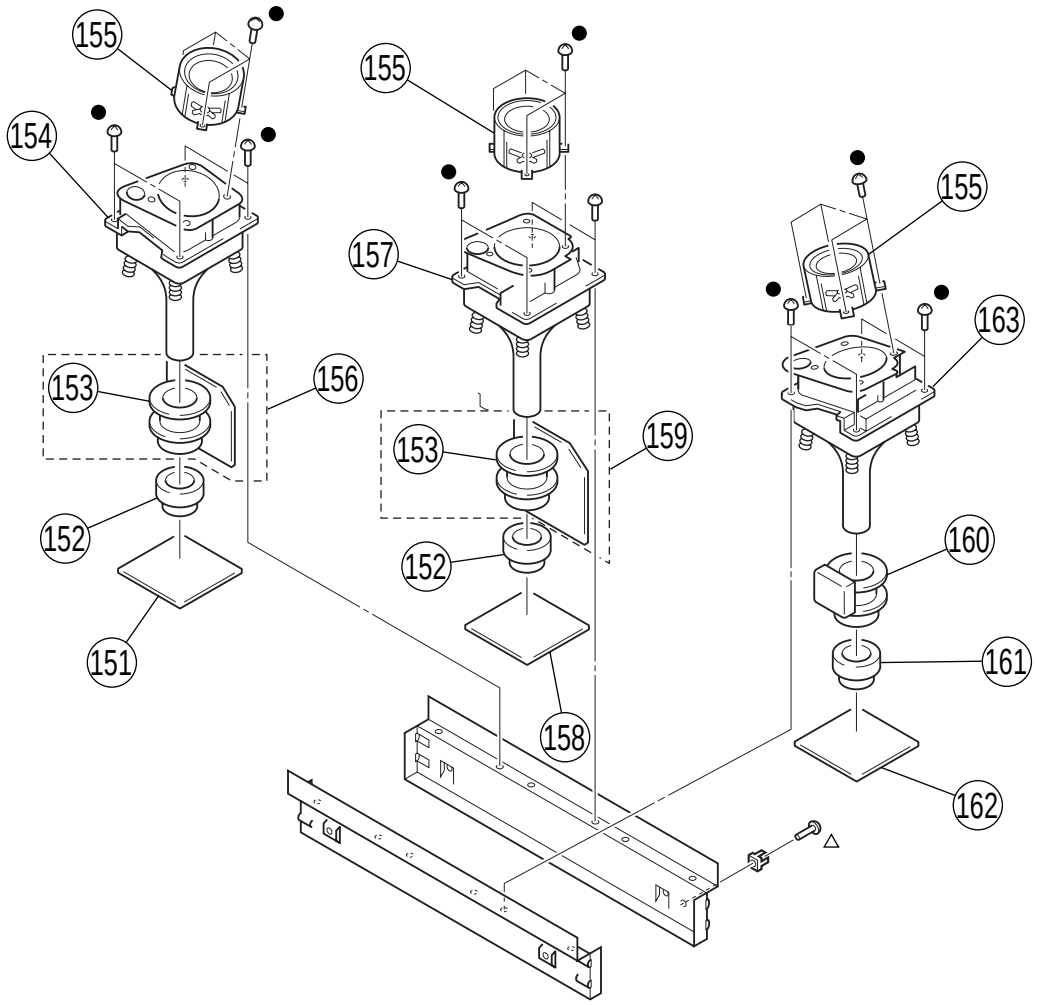


REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*4-062-537-03	BRACKET, MAIN	
102	*A-1642-288-A	E BOARD, COMPLETE	108
103	*A-1346-678-A	D BOARD, COMPLETE (41PX1R)	
103	*A-1642-284-A	D BOARD, COMPLETE (41PX1/41PX1K)	
104	*A-1632-921-A	A BOARD, COMPLETE (41PX1/41PX1K)	
104	*A-1632-959-A	AE BOARD, COMPLETE (41PX1R)	
105	*4-062-536-02	BRACKET (A)	
106	*A-1648-033-A	U BOARD, COMPLETE (41PX1/41PX1K)	
106	*A-1648-034-A	UE BOARD, COMPLETE (41PX1R)	
107	4-063-178-01	BOARD (EURO), TERMINAL	
108	⚠1-453-331-21	TRANSFORMER ASSY, FLYBACK (NX-4010//M3P4)	
109	*4-316-015-02	HOLDER, WIRE	
110	*A-1637-023-A	G BOARD, COMPLETE	
111	⚠1-765-286-11	CORD, POWER	
112	1-543-653-21	CORE ASSY, BEAD (DIVISION TYPE)	
113	4-022-115-00	HOLDER, AC CORD	

8-4. MECHASEAL BLOCK

△ : 7-685-648-71 SCREW +BVTP 3X12
● : 7-685-663-71 SCREW +BVTP 4X16

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK
151	*	A-1638-152-A CR BOARD, COMPLETE	
152	⚠	1-452-790-41 NECK ASSY	
153	⚠	1-451-517-31 DEFLECTION YOKE	
154	⚠	A-1501-213-A MECHASEAL ASSY (R), SLANT	
155		4-056-258-11 LENS (DELTA 78)	
156	*	A-1652-079-A ZR BOARD, COMPLETE	153
157	⚠	A-1501-214-A MECHASEAL ASSY (G), SLANT	
158	*	A-1638-151-A CG BOARD, COMPLETE	
159	*	A-1652-078-A ZG BOARD, COMPLETE	153
160	⚠	1-451-517-21 DEFLECTION YOKE	
161	⚠	1-452-790-31 NECK ASSY	
162	*	A-1638-150-A CB BOARD, COMPLETE	
163	⚠	A-1501-215-A MECHASEAL ASSY (B), SLANT	

SECTION 9
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  PF : μμF
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

* A-1632-921-A A BOARD, COMPLETE (41PX1/41PX1K)
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2	1-104-660-91	ELECT	47μF	20%	16V
C3	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C4	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C8	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C15	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C18	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C19	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C20	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C21	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C22	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C24	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V
C25	1-104-660-91	ELECT	47μF	20%	16V
C26	1-104-660-91	ELECT	47μF	20%	16V
C28	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C29	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C45	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C90	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C101	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C102	1-126-934-11	ELECT	220μF	20%	16V
C103	1-126-965-91	ELECT	22μF	20%	50V
C104	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C105	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C106	1-126-933-11	ELECT	100μF	20%	16V
C107	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C108	1-126-933-11	ELECT	100μF	20%	16V
C109	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V
C110	1-104-660-91	ELECT	47μF	20%	16V
C111	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C112	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V
C113	1-104-660-91	ELECT	47μF	20%	16V
C114	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C115	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C116	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
C117	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C118	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C119	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C120	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C121	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C122	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C123	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C124	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C125	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C126	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C127	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C128	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C129	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C130	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C131	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C132	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C133	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C134	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C136	1-126-964-11	ELECT	10μF	20%	50V
C137	1-104-660-91	ELECT	47μF	20%	16V
C138	1-126-964-11	ELECT	10μF	20%	50V
C139	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C140	1-126-964-11	ELECT	10μF	20%	50V
C141	1-126-934-11	ELECT	220μF	20%	16V
C142	1-162-926-11	CERAMIC CHIP	82pF	5%	50V
C143	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C144	1-164-217-11	CERAMIC CHIP	150pF	5%	50V
C145	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C146	1-164-360-11	CERAMIC CHIP	0.1μF	10%	16V
C147	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C148	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C201	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C202	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C203	1-104-661-91	ELECT	330μF	20%	16V
C204	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C205	1-126-965-91	ELECT	22μF	20%	50V
C207	1-126-964-11	ELECT	10μF	20%	50V
C208	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C209	1-216-864-11	SHORT	0		
C210	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C211	1-126-965-91	ELECT	22μF	20%	50V
C212	1-164-360-11	CERAMIC CHIP	0.1μF	10%	16V
C213	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C214	1-164-360-11	CERAMIC CHIP	0.1μF	10%	16V
C215	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C216	1-104-660-91	ELECT	47μF	20%	16V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C217	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C218	1-104-660-91	ELECT	47µF	20%	16V
C219	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C220	1-126-933-11	ELECT	100µF	20%	16V
C221	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C222	1-164-360-11	CERAMIC CHIP	0.1µF	10%	16V
C223	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C224	1-164-360-11	CERAMIC CHIP	0.1µF	10%	16V
C225	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C226	1-104-660-91	ELECT	47µF	20%	16V
C227	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C228	1-104-660-91	ELECT	47µF	20%	16V
C229	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C230	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C232	1-216-864-11	SHORT	0		
C236	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C237	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C240	1-126-933-11	ELECT	100µF	20%	16V
C241	1-104-660-91	ELECT	47µF	20%	16V
C242	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C243	1-126-967-11	ELECT	47µF	20%	50V
C244	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C245	1-126-963-11	ELECT	4.7µF	20%	50V
C246	1-104-660-91	ELECT	47µF	20%	16V
C247	1-104-660-91	ELECT	47µF	20%	16V
C248	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C249	1-115-156-11	CERAMIC CHIP	1µF		10V
C250	1-115-156-11	CERAMIC CHIP	1µF		10V
C251	1-162-909-11	CERAMIC CHIP	4pF	0.25pF	50V
C252	1-162-909-11	CERAMIC CHIP	4pF	0.25pF	50V
C253	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C254	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C255	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C256	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C257	1-126-965-91	ELECT	22µF	20%	50V
C258	1-126-964-11	ELECT	10µF	20%	50V
C259	1-113-619-11	CERAMIC CHIP	0.47µF		10V
C260	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C261	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C262	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C263	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C264	1-126-962-11	ELECT	3.3µF	20%	50V
C265	1-126-964-11	ELECT	10µF	20%	50V
C266	1-126-964-11	ELECT	10µF	20%	50V
C267	1-126-965-91	ELECT	22µF	20%	50V
C268	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C269	1-164-392-11	CERAMIC CHIP	390pF	5%	50V
C270	1-164-392-11	CERAMIC CHIP	390pF	5%	50V
C271	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C272	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C273	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C274	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C275	1-115-156-11	CERAMIC CHIP	1µF		10V
C276	1-115-156-11	CERAMIC CHIP	1µF		10V
C277	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C278	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C279	1-126-965-91	ELECT	22µF	20%	50V
C280	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C281	1-126-965-91	ELECT	22µF	20%	50V
C282	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C283	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C284	1-126-935-11	ELECT	470µF	20%	10V
C300	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C301	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C302	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C303	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C304	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C306	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C307	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C308	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C309	1-115-156-11	CERAMIC CHIP	1µF		10V
C310	1-115-156-11	CERAMIC CHIP	1µF		10V
C311	1-115-156-11	CERAMIC CHIP	1µF		10V
C312	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C313	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C315	1-216-864-11	SHORT	0		
C316	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C317	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C318	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C320	1-126-965-91	ELECT	22µF	20%	50V
C321	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C322	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C323	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C324	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C325	1-115-156-11	CERAMIC CHIP	1µF		10V
C326	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C327	1-137-374-11	MYLAR	0.047µF	5%	50V
C328	1-126-965-91	ELECT	22µF	20%	50V
C330	1-130-777-00	MYLAR	0.1µF	5%	63V
C331	1-137-581-11	FILM	0.1µF	5%	100V
C332	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C333	1-126-933-11	ELECT	100µF	20%	16V
C334	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C335	1-113-619-11	CERAMIC CHIP	0.47µF		10V
C336	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C337	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C338	1-126-962-11	ELECT	3.3µF	20%	50V
C339	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C340	1-126-933-11	ELECT	100µF	20%	16V
C341	1-113-619-11	CERAMIC CHIP	0.47µF		10V
C342	1-115-156-11	CERAMIC CHIP	1µF		10V
C343	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C344	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C347	1-126-963-11	ELECT	4.7µF	20%	50V
C348	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C349	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C350	1-126-963-11	ELECT	4.7µF	20%	50V
C351	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C352	1-113-619-11	CERAMIC CHIP	0.47µF		10V
C353	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C354	1-113-619-11	CERAMIC CHIP	0.47µF		10V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C355	1-126-965-91	ELECT	22µF	20%	50V
C356	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C357	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C358	1-113-619-11	CERAMIC CHIP	0.47µF		10V
C359	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C360	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C361	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C362	1-162-921-11	CERAMIC CHIP	33pF	5%	50V
C370	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C371	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C372	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C373	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C380	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1001	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C1002	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C1010	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1013	1-126-965-91	ELECT	22µF	20%	50V
C1014	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1015	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C1020	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C4017	1-162-922-11	CERAMIC CHIP	39pF	5%	50V
C4031	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C4032	1-126-964-11	ELECT	10µF	20%	50V
C4033	1-126-933-11	ELECT	100µF	20%	16V
C4035	1-126-964-11	ELECT	10µF	20%	50V
C4036	1-126-964-11	ELECT	10µF	20%	50V
C4038	1-126-964-11	ELECT	10µF	20%	50V
C4039	1-126-964-11	ELECT	10µF	20%	50V
C4040	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4041	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4042	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4043	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4045	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4046	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4047	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4048	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4055	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4056	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4057	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4058	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4059	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4060	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4061	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C4064	1-126-964-11	ELECT	10µF	20%	50V
C4066	1-126-959-11	ELECT	0.47µF	20%	50V
C4067	1-115-156-11	CERAMIC CHIP	1µF		10V
C4068	1-115-156-11	CERAMIC CHIP	1µF		10V
C4071	1-115-156-11	CERAMIC CHIP	1µF		10V
C4072	1-115-156-11	CERAMIC CHIP	1µF		10V
C4082	1-126-964-11	ELECT	10µF	20%	50V
C4088	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C4089	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C4090	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C4091	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C4101	1-164-217-11	CERAMIC CHIP 150pF 5% 50V	
		<FILTER>	
CF120	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
		<CONNECTOR>	
CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN6	* 1-564-516-11	PLUG, CONNECTOR 13P	
CN101	1-695-915-11	TAB (CONTACT)	
CN102	1-695-915-11	TAB (CONTACT)	
CN104	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN201	1-766-296-11	CONNECTOR, DUAL SCART	(AV1, AV2 IN/OUT)
CN301	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN4501	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN4502	* 1-564-510-11	PLUG, CONNECTOR 7P	
		<DIODE>	
D2	8-719-988-61	DIODE 1SS355TE-17	
D11	8-719-069-55	DIODE UDZSTE-175.6B	
D12	8-719-069-55	DIODE UDZSTE-175.6B	
D16	8-719-988-61	DIODE 1SS355TE-17	
D101	8-719-977-81	DIODE DTZ33B	
D102	8-719-988-61	DIODE 1SS355TE-17	
D201	8-719-069-60	DIODE UDZSTE-179.1B	
D202	8-719-069-60	DIODE UDZSTE-179.1B	
D203	8-719-069-60	DIODE UDZSTE-179.1B	
D204	8-719-069-60	DIODE UDZSTE-179.1B	
D205	8-719-069-60	DIODE UDZSTE-179.1B	
D206	8-719-069-60	DIODE UDZSTE-179.1B	
D207	8-719-069-60	DIODE UDZSTE-179.1B	
D208	8-719-069-60	DIODE UDZSTE-179.1B	
D209	8-719-069-60	DIODE UDZSTE-179.1B	
D210	8-719-069-60	DIODE UDZSTE-179.1B	
D211	8-719-069-60	DIODE UDZSTE-179.1B	
D212	8-719-069-60	DIODE UDZSTE-179.1B	
D213	8-719-069-60	DIODE UDZSTE-179.1B	
D214	8-719-069-60	DIODE UDZSTE-179.1B	
D215	8-719-069-60	DIODE UDZSTE-179.1B	
D216	8-719-069-55	DIODE UDZSTE-175.6B	
D217	8-719-069-55	DIODE UDZSTE-175.6B	
D218	8-719-069-55	DIODE UDZSTE-175.6B	
D220	8-719-988-61	DIODE 1SS355TE-17	
D221	8-719-988-61	DIODE 1SS355TE-17	
D222	8-719-069-55	DIODE UDZSTE-175.6B	
D223	8-719-069-60	DIODE UDZSTE-179.1B	
D224	8-719-069-60	DIODE UDZSTE-179.1B	
D225	8-719-069-60	DIODE UDZSTE-179.1B	
D226	8-719-069-60	DIODE UDZSTE-179.1B	
D251	8-719-047-16	DIODE BAS216	
D303	8-719-988-61	DIODE 1SS355TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
D320	8-719-069-60	DIODE UDZSTE-179.1B	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D370	8-719-047-16	DIODE BAS216	
D401	8-719-069-60	DIODE UDZSTE-179.1B	
D402	8-719-988-61	DIODE 1SS355TE-17	
D1010	8-719-036-58	DIODE MA3030-H (TX)	
D4004	8-719-069-60	DIODE UDZSTE-179.1B	
D4006	8-719-069-60	DIODE UDZSTE-179.1B	
D4007	8-719-069-60	DIODE UDZSTE-179.1B	
D4008	8-719-069-60	DIODE UDZSTE-179.1B	
D4009	8-719-069-60	DIODE UDZSTE-179.1B	
D4010	8-719-069-60	DIODE UDZSTE-179.1B	
D4011	8-719-069-55	DIODE UDZSTE-175.6B	
D4015	8-719-069-55	DIODE UDZSTE-175.6B	
		<FERRITE BEAD>	
FB101	1-414-235-22	FERRITE 0µH	
		<FILTER>	
FL101	1-236-071-11	ENCAPSULATED COMPONENT	
FL102	1-233-765-21	FILTER	
FL103	1-233-765-21	FILTER	
FL104	1-233-765-21	FILTER	
FL105	1-236-071-11	ENCAPSULATED COMPONENT	
FL106	1-236-071-11	ENCAPSULATED COMPONENT	
FL107	1-236-071-11	ENCAPSULATED COMPONENT	
FL108	1-236-071-11	ENCAPSULATED COMPONENT	
FL201	1-236-071-11	ENCAPSULATED COMPONENT	
FL202	1-236-071-11	ENCAPSULATED COMPONENT	
FL203	1-236-071-11	ENCAPSULATED COMPONENT	
FL1001	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC1	8-759-376-77	IC SDA30C263-GEG	
IC2	8-759-564-06	IC M24C32-MN6T	
IC3	1-750-797-12	SOCKET, PLCC	
IC4	8-759-394-57	IC PST593C-MMP-4P	
IC103	8-752-390-37	IC CXD2064Q-T6	
IC201	8-752-081-26	IC CXA2040AQ-T4	
IC202	6-700-412-01	IC MSP3411G-PS-B8	
IC204	8-759-008-67	IC MC14066BF	
IC205	8-759-394-57	IC PST593C-MMP-4P	
IC206	8-752-058-68	IC CXA1315M	
IC301	8-752-081-43	IC CXA2076Q-TL	
IC302	8-759-565-20	IC TDA4665T/V5-118	
IC303	8-759-430-79	IC TDA8395T/N3	
IC1001	8-759-584-20	IC SDA5273-3CP-C55-22-GEG	
IC4003	8-752-087-76	IC CXA2089Q-T6	
		<CHIP CONDUCTOR>	
JR1	1-216-864-11	SHORT 0	
JR2	1-216-296-11	SHORT 0	
JR3	1-216-296-11	SHORT 0	
JR6	1-216-864-11	SHORT 0	
JR201	1-216-864-11	SHORT 0	
JR205	1-216-295-91	SHORT 0	
JR206	1-216-295-91	SHORT 0	
JR207	1-216-295-91	SHORT 0	
JR208	1-216-296-11	SHORT 0	
JR209	1-216-295-91	SHORT 0	
JR211	1-216-295-91	SHORT 0	
JR212	1-216-295-91	SHORT 0	
JR301	1-216-295-91	SHORT 0	
JR303	1-216-296-11	SHORT 0	
JR304	1-216-296-11	SHORT 0	
JR305	1-216-296-11	SHORT 0	
JR360	1-216-295-91	SHORT 0	
JR362	1-216-295-91	SHORT 0	
JR1010	1-216-864-11	SHORT 0	
		<COIL>	
L101	1-410-993-42	INDUCTOR CHIP 1µH	
L102	1-410-506-11	INDUCTOR 5.6µH	
L103	1-412-009-31	INDUCTOR CHIP 18µH	
L120	1-408-602-31	INDUCTOR 8.2µH	
L121	1-414-177-11	INDUCTOR 1µH	
L122	1-408-602-31	INDUCTOR 8.2µH	
L201	1-414-187-11	INDUCTOR 47µH	
L202	1-412-002-31	INDUCTOR CHIP 4.7µH	
L203	1-412-002-31	INDUCTOR CHIP 4.7µH	
L204	1-412-002-31	INDUCTOR CHIP 4.7µH	
L205	1-412-002-31	INDUCTOR CHIP 4.7µH	
L206	1-412-002-31	INDUCTOR CHIP 4.7µH	
L207	1-216-864-11	SHORT 0	
L208	1-412-002-31	INDUCTOR CHIP 4.7µH	
L300	1-412-006-31	INDUCTOR CHIP 10µH	
L302	1-412-979-21	INDUCTOR 1µF	
L303	1-412-979-21	INDUCTOR 1µF	
L304	1-412-979-21	INDUCTOR 1µF	
L305	1-412-979-21	INDUCTOR 1µF	
		<TRANSISTOR>	
Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q17	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q18	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q22	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q23	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q24	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q25	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q81	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q106	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q109	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q116	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q117	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q118	8-729-039-67	TRANSISTOR BSS83	
Q120	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q122	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q124	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q125	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q130	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q205	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q209	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q211	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q212	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q213	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q215	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q216	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q300	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q306	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q307	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q308	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q309	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q331	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q333	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q334	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q335	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2412	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q2414	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4003	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q4007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2	1-216-809-11	RES-CHIP	100	5%	1/16W
R3	1-216-809-11	RES-CHIP	100	5%	1/16W
R4	1-216-803-11	RES-CHIP	33	5%	1/16W
R5	1-216-833-11	RES-CHIP	10K	5%	1/16W
R6	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R7	1-216-817-11	RES-CHIP	470	5%	1/16W
R9	1-216-817-11	RES-CHIP	470	5%	1/16W
R20	1-216-809-11	RES-CHIP	100	5%	1/16W
R21	1-216-809-11	RES-CHIP	100	5%	1/16W
R24	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R25	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R28	1-216-833-11	RES-CHIP	10K	5%	1/16W
R29	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R30	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R31	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R32	1-216-809-11	RES-CHIP	100	5%	1/16W
R33	1-216-809-11	RES-CHIP	100	5%	1/16W
R34	1-216-809-11	RES-CHIP	100	5%	1/16W
R35	1-216-809-11	RES-CHIP	100	5%	1/16W
R39	1-216-833-11	RES-CHIP	10K	5%	1/16W
R46	1-216-844-11	RES-CHIP	82K	5%	1/16W
R49	1-216-809-11	RES-CHIP	100	5%	1/16W
R52	1-216-837-11	RES-CHIP	22K	5%	1/16W
R53	1-216-821-11	RES-CHIP	1K	5%	1/16W
R54	1-216-809-11	RES-CHIP	100	5%	1/16W
R58	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R59	1-216-809-11	RES-CHIP	100	5%	1/16W
R60	1-216-809-11	RES-CHIP	100	5%	1/16W
R61	1-216-809-11	RES-CHIP	100	5%	1/16W
R62	1-216-809-11	RES-CHIP	100	5%	1/16W
R63	1-216-809-11	RES-CHIP	100	5%	1/16W
R64	1-216-809-11	RES-CHIP	100	5%	1/16W
R65	1-216-809-11	RES-CHIP	100	5%	1/16W
R66	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R67	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R68	1-216-809-11	RES-CHIP	100	5%	1/16W
R69	1-216-821-11	RES-CHIP	1K	5%	1/16W
R70	1-216-809-11	RES-CHIP	100	5%	1/16W
R71	1-216-809-11	RES-CHIP	100	5%	1/16W
R72	1-216-809-11	RES-CHIP	100	5%	1/16W
R73	1-216-809-11	RES-CHIP	100	5%	1/16W
R74	1-216-809-11	RES-CHIP	100	5%	1/16W
R76	1-216-809-11	RES-CHIP	100	5%	1/16W
R78	1-216-809-11	RES-CHIP	100	5%	1/16W
R79	1-216-813-11	RES-CHIP	220	5%	1/16W
R80	1-216-821-11	RES-CHIP	1K	5%	1/16W
R83	1-216-809-11	RES-CHIP	100	5%	1/16W
R84	1-216-845-11	RES-CHIP	100K	5%	1/16W
R85	1-216-843-11	RES-CHIP	68K	5%	1/16W
R86	1-216-821-11	RES-CHIP	1K	5%	1/16W
R87	1-216-835-11	RES-CHIP	15K	5%	1/16W
R88	1-216-809-11	RES-CHIP	100	5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R91	1-216-809-11	RES-CHIP	100	5%	1/16W
R92	1-216-809-11	RES-CHIP	100	5%	1/16W
R93	1-216-813-11	RES-CHIP	220	5%	1/16W
R94	1-216-813-11	RES-CHIP	220	5%	1/16W
R95	1-216-813-11	RES-CHIP	220	5%	1/16W
R97	1-216-809-11	RES-CHIP	100	5%	1/16W
R100	1-216-813-11	RES-CHIP	220	5%	1/16W
R101	1-216-864-11	SHORT	0		
R102	1-216-809-11	RES-CHIP	100	5%	1/16W
R103	1-216-809-11	RES-CHIP	100	5%	1/16W
R104	1-216-833-11	RES-CHIP	10K	5%	1/16W
R105	1-216-853-11	RES-CHIP	470K	5%	1/16W
R106	1-216-833-11	RES-CHIP	10K	5%	1/16W
R107	1-216-818-11	RES-CHIP	560	5%	1/16W
R108	1-216-842-11	RES-CHIP	56K	5%	1/16W
R109	1-216-821-11	RES-CHIP	1K	5%	1/16W
R110	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R111	1-216-811-11	RES-CHIP	150	5%	1/16W
R112	1-216-811-11	RES-CHIP	150	5%	1/16W
R113	1-216-797-11	RES-CHIP	10	5%	1/16W
R114	1-216-811-11	RES-CHIP	150	5%	1/16W
R115	1-216-815-11	RES-CHIP	330	5%	1/16W
R116	1-216-817-11	RES-CHIP	470	5%	1/16W
R117	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R118	1-216-805-11	RES-CHIP	47	5%	1/16W
R119	1-216-834-11	RES-CHIP	12K	5%	1/16W
R120	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R121	1-216-833-11	RES-CHIP	10K	5%	1/16W
R122	1-216-817-11	RES-CHIP	470	5%	1/16W
R123	1-216-812-11	RES-CHIP	180	5%	1/16W
R124	1-216-821-11	RES-CHIP	1K	5%	1/16W
R125	1-216-837-11	RES-CHIP	22K	5%	1/16W
R126	1-216-809-11	RES-CHIP	100	5%	1/16W
R127	1-216-837-11	RES-CHIP	22K	5%	1/16W
R128	1-216-814-11	RES-CHIP	270	5%	1/16W
R129	1-216-815-11	RES-CHIP	330	5%	1/16W
R130	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R131	1-216-833-11	RES-CHIP	10K	5%	1/16W
R132	1-216-809-11	RES-CHIP	100	5%	1/16W
R133	1-216-817-11	RES-CHIP	470	5%	1/16W
R134	1-216-797-11	RES-CHIP	10	5%	1/16W
R135	1-216-819-11	RES-CHIP	680	5%	1/16W
R136	1-216-813-11	RES-CHIP	220	5%	1/16W
R137	1-216-821-11	RES-CHIP	1K	5%	1/16W
R138	1-216-817-11	RES-CHIP	470	5%	1/16W
R139	1-216-821-11	RES-CHIP	1K	5%	1/16W
R140	1-216-817-11	RES-CHIP	470	5%	1/16W
R141	1-216-820-11	RES-CHIP	820	5%	1/16W
R142	1-216-864-11	SHORT	0		
R144	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R145	1-216-809-11	RES-CHIP	100	5%	1/16W
R146	1-216-809-11	RES-CHIP	100	5%	1/16W
R147	1-216-809-11	RES-CHIP	100	5%	1/16W
R148	1-216-809-11	RES-CHIP	100	5%	1/16W
R149	1-216-809-11	RES-CHIP	100	5%	1/16W
R150	1-216-809-11	RES-CHIP	100	5%	1/16W
R151	1-216-809-11	RES-CHIP	100	5%	1/16W
R152	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R153	1-216-809-11	RES-CHIP	100	5%	1/16W
R154	1-216-864-11	SHORT	0		
R157	1-216-864-11	SHORT	0		
R160	1-216-864-11	SHORT	0		
R161	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R162	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R163	1-216-813-11	RES-CHIP	220	5%	1/16W
R164	1-216-841-11	RES-CHIP	47K	5%	1/16W
R165	1-216-841-11	RES-CHIP	47K	5%	1/16W
R166	1-216-813-11	RES-CHIP	220	5%	1/16W
R167	1-216-818-11	RES-CHIP	560	5%	1/16W
R168	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R169	1-216-813-11	RES-CHIP	220	5%	1/16W
R170	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R171	1-216-809-11	RES-CHIP	100	5%	1/16W
R172	1-216-813-11	RES-CHIP	220	5%	1/16W
R174	1-216-821-11	RES-CHIP	1K	5%	1/16W
R175	1-216-821-11	RES-CHIP	1K	5%	1/16W
R176	1-216-821-11	RES-CHIP	1K	5%	1/16W
R177	1-208-811-11	METAL CHIP	16K	0.5%	1/10W
R178	1-216-837-11	RES-CHIP	22K	5%	1/16W
R179	1-216-817-11	RES-CHIP	470	5%	1/16W
R180	1-216-841-11	RES-CHIP	47K	5%	1/16W
R181	1-216-841-11	RES-CHIP	47K	5%	1/16W
R182	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R183	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R184	1-216-817-11	RES-CHIP	470	5%	1/16W
R185	1-216-818-11	RES-CHIP	560	5%	1/16W
R186	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R187	1-216-821-11	RES-CHIP	1K	5%	1/16W
R188	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R189	1-216-818-11	RES-CHIP	560	5%	1/16W
R190	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R191	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R192	1-216-821-11	RES-CHIP	1K	5%	1/16W
R193	1-216-821-11	RES-CHIP	1K	5%	1/16W
R194	1-216-821-11	RES-CHIP	1K	5%	1/16W
R195	1-216-821-11	RES-CHIP	1K	5%	1/16W
R196	1-216-821-11	RES-CHIP	1K	5%	1/16W
R197	1-216-821-11	RES-CHIP	1K	5%	1/16W
R198	1-216-813-11	RES-CHIP	220	5%	1/16W
R199	1-208-764-11	METAL CHIP	180	0.5%	1/10W
R200	1-216-821-11	RES-CHIP	1K	5%	1/16W
R201	1-216-864-11	SHORT	0		
R202	1-216-821-11	RES-CHIP	1K	5%	1/16W
R203	1-216-809-11	RES-CHIP	100	5%	1/16W
R204	1-216-809-11	RES-CHIP	100	5%	1/16W
R205	1-216-837-11	RES-CHIP	22K	5%	1/16W
R206	1-216-813-11	RES-CHIP	220	5%	1/16W
R207	1-216-841-11	RES-CHIP	47K	5%	1/16W
R208	1-216-819-11	RES-CHIP	680	5%	1/16W
R209	1-216-821-11	RES-CHIP	1K	5%	1/16W
R211	1-216-821-11	RES-CHIP	1K	5%	1/16W
R212	1-218-285-11	RES-CHIP	75	5%	1/16W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R213	1-218-285-11	RES-CHIP	75	5%	1/16W
R214	1-216-821-11	RES-CHIP	1K	5%	1/16W
R216	1-216-809-11	RES-CHIP	100	5%	1/16W
R217	1-216-837-11	RES-CHIP	22K	5%	1/16W
R218	1-216-809-11	RES-CHIP	100	5%	1/16W
R219	1-216-837-11	RES-CHIP	22K	5%	1/16W
R220	1-216-864-11	SHORT	0		
R221	1-216-816-11	RES-CHIP	390	5%	1/16W
R222	1-216-841-11	RES-CHIP	47K	5%	1/16W
R223	1-216-864-11	SHORT	0		
R224	1-216-816-11	RES-CHIP	390	5%	1/16W
R225	1-216-841-11	RES-CHIP	47K	5%	1/16W
R226	1-216-821-11	RES-CHIP	1K	5%	1/16W
R227	1-216-808-11	RES-CHIP	82	5%	1/16W
R228	1-218-285-11	RES-CHIP	75	5%	1/16W
R229	1-216-821-11	RES-CHIP	1K	5%	1/16W
R230	1-216-808-11	RES-CHIP	82	5%	1/16W
R232	1-216-821-11	RES-CHIP	1K	5%	1/16W
R233	1-216-809-11	RES-CHIP	100	5%	1/16W
R234	1-216-837-11	RES-CHIP	22K	5%	1/16W
R235	1-216-809-11	RES-CHIP	100	5%	1/16W
R236	1-216-837-11	RES-CHIP	22K	5%	1/16W
R237	1-216-864-11	SHORT	0		
R238	1-216-841-11	RES-CHIP	47K	5%	1/16W
R239	1-216-816-11	RES-CHIP	390	5%	1/16W
R240	1-216-864-11	SHORT	0		
R241	1-216-841-11	RES-CHIP	47K	5%	1/16W
R242	1-216-816-11	RES-CHIP	390	5%	1/16W
R243	1-216-864-11	SHORT	0		
R244	1-216-817-11	RES-CHIP	470	5%	1/16W
R245	1-216-821-11	RES-CHIP	1K	5%	1/16W
R247	1-216-817-11	RES-CHIP	470	5%	1/16W
R248	1-216-809-11	RES-CHIP	100	5%	1/16W
R250	1-216-864-11	SHORT	0		
R251	1-216-821-11	RES-CHIP	1K	5%	1/16W
R252	1-216-833-11	RES-CHIP	10K	5%	1/16W
R253	1-216-821-11	RES-CHIP	1K	5%	1/16W
R254	1-216-817-11	RES-CHIP	470	5%	1/16W
R255	1-216-809-11	RES-CHIP	100	5%	1/16W
R256	1-216-809-11	RES-CHIP	100	5%	1/16W
R257	1-216-833-11	RES-CHIP	10K	5%	1/16W
R258	1-216-817-11	RES-CHIP	470	5%	1/16W
R259	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R260	1-216-813-11	RES-CHIP	220	5%	1/16W
R261	1-216-817-11	RES-CHIP	470	5%	1/16W
R262	1-216-809-11	RES-CHIP	100	5%	1/16W
R263	1-216-821-11	RES-CHIP	1K	5%	1/16W
R264	1-216-841-11	RES-CHIP	47K	5%	1/16W
R265	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R266	1-216-841-11	RES-CHIP	47K	5%	1/16W
R267	1-216-838-11	RES-CHIP	27K	5%	1/16W
R268	1-216-841-11	RES-CHIP	47K	5%	1/16W
R269	1-216-841-11	RES-CHIP	47K	5%	1/16W
R270	1-218-285-11	RES-CHIP	75	5%	1/16W
R271	1-218-285-11	RES-CHIP	75	5%	1/16W
R272	1-218-285-11	RES-CHIP	75	5%	1/16W
R273	1-218-285-11	RES-CHIP	75	5%	1/16W
R274	1-216-841-11	RES-CHIP	47K	5%	1/16W
R280	1-216-821-11	RES-CHIP	1K	5%	1/16W
R281	1-216-841-11	RES-CHIP	47K	5%	1/16W
R282	1-216-843-11	RES-CHIP	68K	5%	1/16W
R283	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R284	1-216-841-11	RES-CHIP	47K	5%	1/16W
R285	1-216-843-11	RES-CHIP	68K	5%	1/16W
R286	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R287	1-216-817-11	RES-CHIP	470	5%	1/16W
R288	1-216-821-11	RES-CHIP	1K	5%	1/16W
R289	1-216-813-11	RES-CHIP	220	5%	1/16W
R290	1-216-813-11	RES-CHIP	220	5%	1/16W
R291	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R292	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R295	1-216-821-11	RES-CHIP	1K	5%	1/16W
R296	1-216-821-11	RES-CHIP	1K	5%	1/16W
R297	1-216-813-11	RES-CHIP	220	5%	1/16W
R298	1-216-813-11	RES-CHIP	220	5%	1/16W
R300	1-216-809-11	RES-CHIP	100	5%	1/16W
R301	1-216-813-11	RES-CHIP	220	5%	1/16W
R302	1-216-864-11	SHORT	0		
R303	1-216-864-11	SHORT	0		
R304	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R305	1-216-813-11	RES-CHIP	220	5%	1/16W
R308	1-216-809-11	RES-CHIP	100	5%	1/16W
R309	1-216-813-11	RES-CHIP	220	5%	1/16W
R310	1-216-813-11	RES-CHIP	220	5%	1/16W
R312	1-216-864-11	SHORT	0		
R314	1-216-864-11	SHORT	0		
R315	1-216-864-11	SHORT	0		
R316	1-216-813-11	RES-CHIP	220	5%	1/16W
R317	1-216-813-11	RES-CHIP	220	5%	1/16W
R320	1-216-809-11	RES-CHIP	100	5%	1/16W
R321	1-216-809-11	RES-CHIP	100	5%	1/16W
R322	1-216-809-11	RES-CHIP	100	5%	1/16W
R323	1-216-813-11	RES-CHIP	220	5%	1/16W
R325	1-216-841-11	RES-CHIP	47K	5%	1/16W
R326	1-216-809-11	RES-CHIP	100	5%	1/16W
R327	1-216-809-11	RES-CHIP	100	5%	1/16W
R329	1-216-841-11	RES-CHIP	47K	5%	1/16W
R330	1-216-809-11	RES-CHIP	100	5%	1/16W
R331	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R332	1-216-821-11	RES-CHIP	1K	5%	1/16W
R333	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R334	1-216-817-11	RES-CHIP	470	5%	1/16W
R335	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R336	1-216-851-11	RES-CHIP	330K	5%	1/16W
R337	1-216-809-11	RES-CHIP	100	5%	1/16W
R338	1-216-821-11	RES-CHIP	1K	5%	1/16W
R339	1-216-821-11	RES-CHIP	1K	5%	1/16W
R340	1-216-809-11	RES-CHIP	100	5%	1/16W
R341	1-216-809-11	RES-CHIP	100	5%	1/16W
R342	1-216-821-11	RES-CHIP	1K	5%	1/16W
R343	1-216-827-11	RES-CHIP	3.3K	5%	1/16W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R345	1-216-864-11	SHORT	0		
R347	1-216-809-11	RES-CHIP	100	5%	1/16W
R348	1-216-809-11	RES-CHIP	100	5%	1/16W
R349	1-216-809-11	RES-CHIP	100	5%	1/16W
R350	1-216-817-11	RES-CHIP	470	5%	1/16W
R351	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R352	1-216-835-11	RES-CHIP	15K	5%	1/16W
R353	1-216-821-11	RES-CHIP	1K	5%	1/16W
R354	1-216-864-11	SHORT	0		
R355	1-216-843-11	RES-CHIP	68K	5%	1/16W
R356	1-216-863-11	RES-CHIP	3.3M	5%	1/16W
R359	1-216-864-11	SHORT	0		
R360	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R361	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R362	1-216-821-11	RES-CHIP	1K	5%	1/16W
R364	1-216-821-11	RES-CHIP	1K	5%	1/16W
R366	1-216-833-11	RES-CHIP	10K	5%	1/16W
R367	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R368	1-216-809-11	RES-CHIP	100	5%	1/16W
R370	1-216-864-11	SHORT	0		
R392	1-216-821-11	RES-CHIP	1K	5%	1/16W
R393	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R394	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R395	1-216-864-11	SHORT	0		
R401	1-216-813-11	RES-CHIP	220	5%	1/16W
R402	1-216-833-11	RES-CHIP	10K	5%	1/16W
R403	1-216-837-11	RES-CHIP	22K	5%	1/16W
R404	1-216-838-11	RES-CHIP	27K	5%	1/16W
R405	1-216-833-11	RES-CHIP	10K	5%	1/16W
R406	1-216-833-11	RES-CHIP	10K	5%	1/16W
R407	1-216-833-11	RES-CHIP	10K	5%	1/16W
R408	1-216-821-11	RES-CHIP	1K	5%	1/16W
R409	1-216-821-11	RES-CHIP	1K	5%	1/16W
R410	1-216-837-11	RES-CHIP	22K	5%	1/16W
R411	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1001	1-216-809-11	RES-CHIP	100	5%	1/16W
R1002	1-216-809-11	RES-CHIP	100	5%	1/16W
R1010	1-216-864-11	SHORT	0		
R1012	1-216-817-11	RES-CHIP	470	5%	1/16W
R1014	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1017	1-216-864-11	SHORT	0		
R1020	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1021	1-216-811-11	RES-CHIP	150	5%	1/16W
R1022	1-216-811-11	RES-CHIP	150	5%	1/16W
R1023	1-216-811-11	RES-CHIP	150	5%	1/16W
R1024	1-216-819-11	RES-CHIP	680	5%	1/16W
R1026	1-216-809-11	RES-CHIP	100	5%	1/16W
R1027	1-216-809-11	RES-CHIP	100	5%	1/16W
R1028	1-216-809-11	RES-CHIP	100	5%	1/16W
R2436	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2437	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2438	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2914	1-216-809-11	RES-CHIP	100	5%	1/16W
R2915	1-216-809-11	RES-CHIP	100	5%	1/16W
R4003	1-218-285-11	RES-CHIP	75	5%	1/16W
R4011	1-216-809-11	RES-CHIP	100	5%	1/16W
R4029	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4030	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4032	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4047	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4052	1-216-864-11	SHORT	0		
R4053	1-216-864-11	SHORT	0		
R4054	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R4055	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R4058	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R4059	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R4065	1-216-864-11	SHORT	0		
R4066	1-216-864-11	SHORT	0		
R4067	1-216-864-11	SHORT	0		
R4073	1-216-837-11	RES-CHIP	22K	5%	1/16W
R4075	1-216-817-11	RES-CHIP	470	5%	1/16W
R4078	1-216-837-11	RES-CHIP	22K	5%	1/16W
R4084	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4087	1-216-807-11	RES-CHIP	68	5%	1/16W
R4088	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R4089	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R4105	1-216-813-11	RES-CHIP	220	5%	1/16W
R4106	1-216-809-11	RES-CHIP	100	5%	1/16W
R4107	1-216-809-11	RES-CHIP	100	5%	1/16W
R4108	1-216-813-11	RES-CHIP	220	5%	1/16W
R4111	1-216-821-11	RES-CHIP	1K	5%	1/16W

<TUNER>

TU101 ⚠ 8-598-535-10 FRONTEND BTF-EF411

<CRYSTAL>

X1	1-767-154-21	VIBRATOR, CERAMIC (11.5MHz)
X201	1-781-148-21	VIBRATOR, CRYSTAL (18.432MHz)
X301	1-567-504-11	OSCILLATOR, CRYSTAL (4.43MHz)
X302	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)
X303	1-767-127-11	VIBRATOR, CERAMIC (503.5kHz)
X1001	1-760-551-21	VIBRATOR, CERAMIC (20.48MHz)

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* A-1632-959-A AE BOARD, COMPLETE (41PX1R)
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1-750-797-12 SOCKET, PLCC

<CAPACITOR>

C1	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C2	1-126-947-11	ELECT	47µF	20%	16V
C3	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C4	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C8	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C10	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C11	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C14	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C15	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C18	1-163-038-00	CERAMIC CHIP	0.1µF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C19	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C20	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C21	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C22	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C24	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C25	1-126-947-11	ELECT	47µF	20%	16V
C26	1-126-947-11	ELECT	47µF	20%	16V
C43	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
C45	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C90	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C101	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C102	1-126-934-11	ELECT	220µF	20%	16V
C103	1-126-965-91	ELECT	22µF	20%	50V
C104	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C110	1-126-947-11	ELECT	47µF	20%	16V
C112	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C113	1-126-947-11	ELECT	47µF	20%	16V
C115	1-163-263-11	CERAMIC CHIP	330pF	5%	50V
C120	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C121	1-163-247-11	CERAMIC CHIP	68pF	5%	50V
C122	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C123	1-163-247-11	CERAMIC CHIP	68pF	5%	50V
C124	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C125	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C126	1-126-933-11	ELECT	100µF	20%	16V
C127	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C128	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C129	1-163-089-00	CERAMIC CHIP	6pF	0.5pF	50V
C130	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C131	1-126-947-11	ELECT	47µF	20%	16V
C132	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C133	1-126-963-11	ELECT	4.7µF	20%	50V
C134	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C135	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C136	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C137	1-126-947-11	ELECT	47µF	20%	16V
C138	1-126-964-11	ELECT	10µF	20%	50V
C139	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C143	1-126-947-11	ELECT	47µF	20%	16V
C144	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C145	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C146	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C147	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C148	1-126-933-11	ELECT	100µF	20%	16V
C149	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C150	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C151	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C152	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C153	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C154	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C155	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C201	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C202	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C203	1-104-661-91	ELECT	330µF	20%	16V
C204	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C205	1-126-965-91	ELECT	22µF	20%	50V
C206	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C207	1-126-964-11	ELECT	10µF	20%	50V
C208	1-126-965-91	ELECT	22µF	20%	50V
C209	1-126-964-11	ELECT	10µF	20%	50V
C210	1-216-295-00	SHORT	0		
C211	1-126-965-91	ELECT	22µF	20%	50V
C212	1-164-346-11	CERAMIC CHIP	1µF		16V
C213	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C214	1-164-346-11	CERAMIC CHIP	1µF		16V
C215	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C216	1-126-947-11	ELECT	47µF	20%	16V
C217	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C218	1-126-947-11	ELECT	47µF	20%	16V
C219	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C220	1-126-965-91	ELECT	22µF	20%	50V
C221	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C222	1-164-346-11	CERAMIC CHIP	1µF		16V
C223	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C224	1-164-346-11	CERAMIC CHIP	1µF		16V
C225	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C226	1-126-947-11	ELECT	47µF	20%	16V
C227	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C228	1-126-947-11	ELECT	47µF	20%	16V
C229	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C230	1-216-295-00	SHORT	0		
C242	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C243	1-126-967-11	ELECT	47µF	20%	50V
C244	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C245	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C251	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C252	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C253	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C254	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C255	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C256	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C257	1-126-965-11	ELECT	22µF	20%	50V
C258	1-126-964-11	ELECT	10µF	20%	50V
C259	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C260	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C261	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C262	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C263	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C264	1-126-962-11	ELECT	3.3µF	20%	50V
C265	1-126-964-11	ELECT	10µF	20%	50V
C266	1-126-964-11	ELECT	10µF	20%	50V
C267	1-126-965-91	ELECT	22µF	20%	50V
C268	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C269	1-163-131-00	CERAMIC CHIP	390pF	5%	50V
C270	1-163-131-00	CERAMIC CHIP	390pF	5%	50V
C271	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C272	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C273	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C274	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C275	1-164-346-11	CERAMIC CHIP	1µF		16V
C276	1-164-346-11	CERAMIC CHIP	1µF		16V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C277	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C278	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C279	1-126-965-91	ELECT	22µF	20%	50V
C280	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C281	1-126-965-91	ELECT	22µF	20%	50V
C282	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C283	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C300	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C301	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C302	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C303	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C304	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C305	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C306	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C307	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C308	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C309	1-164-346-11	CERAMIC CHIP	1µF		16V
C310	1-164-346-11	CERAMIC CHIP	1µF		16V
C311	1-164-346-11	CERAMIC CHIP	1µF		16V
C312	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C313	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C315	1-216-295-00	SHORT	0		
C316	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C317	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C320	1-126-965-91	ELECT	22µF	20%	50V
C321	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C322	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C323	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C324	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C325	1-164-346-11	CERAMIC CHIP	1µF		16V
C326	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C327	1-137-374-11	FILM	0.047µF	5%	50V
C328	1-126-964-11	ELECT	10µF	20%	50V
C330	1-130-777-00	FILM	0.1µF	5%	63V
C331	1-137-581-11	FILM	0.1µF	5%	100V
C332	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C333	1-126-933-11	ELECT	100µF	20%	16V
C334	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C335	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C336	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C337	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C338	1-126-962-11	ELECT	3.3µF	20%	50V
C339	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C340	1-126-933-11	ELECT	100µF	20%	16V
C341	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C342	1-164-346-11	CERAMIC CHIP	1µF		16V
C343	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C344	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C347	1-126-963-11	ELECT	4.7µF	20%	50V
C348	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C350	1-126-964-11	ELECT	10µF	20%	50V
C351	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C352	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C353	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C354	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C355	1-126-965-91	ELECT	22µF	20%	50V
C356	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C357	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C358	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C359	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C360	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C370	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C371	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C372	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C373	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C376	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C377	1-126-964-11	ELECT	10µF	20%	50V
C380	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C1001	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C1002	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C1010	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C1013	1-126-965-91	ELECT	22µF	20%	50V
C1014	1-163-038-00	CERAMIC CHIP	0.1µF		25V
C1015	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C1020	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
		<FILTER>			
CF120	1-781-328-21	TRAP, CERAMIC (6.5MHZ)			
		<CONNECTOR>			
CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P			
CN2	*1-564-508-11	PLUG, CONNECTOR 5P			
CN6	*1-564-516-11	PLUG, CONNECTOR 13P			
CN101	1-695-915-11	TAB (CONTACT)			
CN201	1-766-296-31	CONNECTOR, DUAL SCART			
CN301	*1-564-510-11	PLUG, CONNECTOR 7P			
		<DIODE>			
D2	8-719-988-61	DIODE 1SS355TE-17			
D10	8-719-069-55	DIODE UDZSTE-175.6B			
D11	8-719-069-55	DIODE UDZSTE-175.6B			
D12	8-719-069-55	DIODE UDZSTE-175.6B			
D16	8-719-988-61	DIODE 1SS355TE-17			
D101	8-719-977-81	DIODE DTZ33B			
D102	8-719-988-61	DIODE 1SS355TE-17			
D201	8-719-069-60	DIODE UDZSTE-179.1B			
D202	8-719-069-60	DIODE UDZSTE-179.1B			
D203	8-719-069-60	DIODE UDZSTE-179.1B			
D204	8-719-069-60	DIODE UDZSTE-179.1B			
D205	8-719-069-60	DIODE UDZSTE-179.1B			
D206	8-719-069-60	DIODE UDZSTE-179.1B			
D207	8-719-069-60	DIODE UDZSTE-179.1B			
D208	8-719-069-60	DIODE UDZSTE-179.1B			
D209	8-719-069-60	DIODE UDZSTE-179.1B			
D210	8-719-069-60	DIODE UDZSTE-179.1B			
D211	8-719-069-60	DIODE UDZSTE-179.1B			
D212	8-719-069-60	DIODE UDZSTE-179.1B			
D213	8-719-069-60	DIODE UDZSTE-179.1B			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D214	8-719-069-60	DIODE UDZSTE-179.1B	
D215	8-719-069-60	DIODE UDZSTE-179.1B	
D216	8-719-069-55	DIODE UDZSTE-175.6B	
D217	8-719-069-55	DIODE UDZSTE-175.6B	
D218	8-719-069-55	DIODE UDZSTE-175.6B	
D220	8-719-988-61	DIODE 1SS355TE-17	
D221	8-719-988-61	DIODE 1SS355TE-17	
D222	8-719-069-60	DIODE UDZSTE-179.1B	
D223	8-719-069-60	DIODE UDZSTE-179.1B	
D224	8-719-069-60	DIODE UDZSTE-179.1B	
D225	8-719-069-60	DIODE UDZSTE-179.1B	
D226	8-719-069-60	DIODE UDZSTE-179.1B	
D227	8-719-978-33	DIODE DTZ-TT11-6.8B	
D228	8-719-978-33	DIODE DTZ-TT11-6.8B	
D231	8-719-069-55	DIODE UDZSTE-175.6B	
D251	8-719-047-16	DIODE BAS216	
D303	8-719-988-61	DIODE 1SS355TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
D320	8-719-069-60	DIODE UDZSTE-179.1B	
D370	8-719-047-16	DIODE BAS216	
D1010	8-719-036-58	DIODE MA3030-H(TX)	
		<FERRITE BEAD>	
FB101	1-414-235-11	INDUCTOR CHIP 0µH	
FB102	1-414-235-11	INDUCTOR CHIP 0µH	
FB103	1-414-235-11	INDUCTOR CHIP 0µH	
FB104	1-414-235-11	INDUCTOR CHIP 0µH	
		<FILTER>	
FL101	1-236-071-11	ENCAPSULATED COMPONENT	
FL102	1-233-765-21	FILTER	
FL103	1-233-765-21	FILTER	
FL104	1-233-765-21	FILTER	
FL201	1-236-071-11	ENCAPSULATED COMPONENT	
FL202	1-236-071-11	ENCAPSULATED COMPONENT	
FL203	1-236-071-11	ENCAPSULATED COMPONENT	
FL1001	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC1	8-759-376-77	IC SDA30C263-GEG	
IC2	8-759-524-94	IC M24C32-MW6T	
IC3	8-759-690-63	IC M27C2001-12C1-RR403	
IC4	8-759-394-57	IC PST593C-MMP-4P	
IC102	8-759-711-62	IC NJM2240M	
IC103	8-752-379-35	IC CXD2044Q-TL	
IC201	8-752-081-26	IC CXA2040AQ-T4	
IC202	8-759-654-15	IC MSP3410D-C5-PS-B4	
IC204	8-759-008-67	IC MC14066BF	
IC205	8-759-394-57	IC PST593C-MMP-4P	
IC206	8-752-058-68	IC CXA1315M	
IC301	8-752-081-43	IC CXA2076Q-TL	
IC302	8-759-565-20	IC TDA4665T/V5-118	
IC303	8-759-430-79	IC TDA8395T/N3	
IC1001	8-759-584-20	IC SDA5273-3CP	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CHIP, CONDUCTOR>	
JR1	1-216-295-00	SHORT 0	
JR2	1-216-296-00	SHORT 0	
JR3	1-216-296-00	SHORT 0	
JR4	1-216-295-00	SHORT 0	
JR201	1-216-295-00	SHORT 0	
JR203	1-216-295-00	SHORT 0	
JR208	1-216-295-00	SHORT 0	
JR209	1-216-295-00	SHORT 0	
JR211	1-216-295-00	SHORT 0	
JR212	1-216-295-00	SHORT 0	
JR303	1-216-296-00	SHORT 0	
JR304	1-216-296-00	SHORT 0	
JR305	1-216-296-00	SHORT 0	
JR360	1-216-295-00	SHORT 0	
JR362	1-216-295-00	SHORT 0	
JR1010	1-216-295-00	SHORT 0	
		<COIL>	
L10	1-410-379-31	INDUCTOR CHIP 6.8µH	
L102	1-408-600-31	INDUCTOR 5.6µH	
L111	1-216-295-00	SHORT 0	
L120	1-408-602-31	INDUCTOR 8.2µH	
L121	1-408-591-11	INDUCTOR 1µH	
L122	1-408-602-31	INDUCTOR 8.2µH	
L300	1-412-006-31	INDUCTOR CHIP 10µH	
L301	1-410-993-11	INDUCTOR CHIP 1µH	
		<TRANSISTOR>	
Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q15	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q17	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q18	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q22	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q23	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q24	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q25	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q109	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q113	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q114	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q116	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q120	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q122	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q124	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q125	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q130	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q211	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q212	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q213	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q215	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q216	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q217	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q300	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q306	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q307	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q308	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q309	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q331	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

<RESISTOR>

R1	1-216-049-00	RES,CHIP	1K	5%	1/10W
R2	1-216-025-00	RES,CHIP	100	5%	1/10W
R3	1-216-025-00	RES,CHIP	100	5%	1/10W
R4	1-216-013-00	RES,CHIP	33	5%	1/10W
R5	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R7	1-216-041-00	RES,CHIP	470	5%	1/10W
R9	1-216-041-00	RES,CHIP	470	5%	1/10W
R18	1-216-025-00	RES,CHIP	100	5%	1/10W
R19	1-216-025-00	RES,CHIP	100	5%	1/10W
R20	1-216-025-00	RES,CHIP	100	5%	1/10W
R21	1-216-025-00	RES,CHIP	100	5%	1/10W
R24	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R25	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R28	1-216-073-00	RES,CHIP	10K	5%	1/10W
R29	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R30	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R31	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R32	1-216-025-00	RES,CHIP	100	5%	1/10W
R33	1-216-025-00	RES,CHIP	100	5%	1/10W
R34	1-216-025-00	RES,CHIP	100	5%	1/10W
R35	1-216-025-00	RES,CHIP	100	5%	1/10W
R40	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R42	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R44	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R46	1-216-095-00	RES,CHIP	82K	5%	1/10W
R47	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R48	1-217-671-11	RES,CHIP	1	5%	1/10W
R49	1-216-025-00	RES,CHIP	100	5%	1/10W
R50	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R51	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R52	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R53	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R54	1-216-025-00	RES,CHIP	100	5%	1/10W
R58	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R59	1-216-025-00	RES,CHIP	100	5%	1/10W
R60	1-216-025-00	RES,CHIP	100	5%	1/10W
R61	1-216-025-00	RES,CHIP	100	5%	1/10W
R62	1-216-025-00	RES,CHIP	100	5%	1/10W
R64	1-216-025-00	RES,CHIP	100	5%	1/10W
R65	1-216-025-00	RES,CHIP	100	5%	1/10W
R66	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R67	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R68	1-216-025-00	RES,CHIP	100	5%	1/10W
R70	1-216-025-00	RES,CHIP	100	5%	1/10W
R71	1-216-025-00	RES,CHIP	100	5%	1/10W
R72	1-216-025-00	RES,CHIP	100	5%	1/10W
R73	1-216-025-00	RES,CHIP	100	5%	1/10W
R74	1-216-025-00	RES,CHIP	100	5%	1/10W
R76	1-216-025-00	RES,CHIP	100	5%	1/10W
R77	1-216-025-00	RES,CHIP	100	5%	1/10W
R78	1-216-025-00	RES,CHIP	100	5%	1/10W
R79	1-216-033-00	RES,CHIP	220	5%	1/10W
R88	1-216-025-00	RES,CHIP	100	5%	1/10W
R91	1-216-025-00	RES,CHIP	100	5%	1/10W
R92	1-216-025-00	RES,CHIP	100	5%	1/10W
R93	1-216-033-00	RES,CHIP	220	5%	1/10W
R94	1-216-033-00	RES,CHIP	220	5%	1/10W
R95	1-216-033-00	RES,CHIP	220	5%	1/10W
R97	1-216-025-00	RES,CHIP	100	5%	1/10W
R101	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R102	1-216-025-00	RES,CHIP	100	5%	1/10W
R103	1-216-025-00	RES,CHIP	100	5%	1/10W
R104	1-216-073-00	RES,CHIP	10K	5%	1/10W
R105	1-216-113-00	RES,CHIP	470K	5%	1/10W
R106	1-216-073-00	RES,CHIP	10K	5%	1/10W
R107	1-216-295-00	SHORT	0		
R110	1-216-073-00	RES,CHIP	10K	5%	1/10W
R111	1-216-029-00	RES,CHIP	150	5%	1/10W
R112	1-216-029-00	RES,CHIP	150	5%	1/10W
R113	1-216-001-00	RES,CHIP	10	5%	1/10W
R114	1-216-029-00	RES,CHIP	150	5%	1/10W
R115	1-216-037-00	RES,CHIP	330	5%	1/10W
R116	1-216-065-00	RES,CHIP	4.7K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R117	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R118	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R119	1-216-033-00	RES,CHIP	220	5%	1/10W
R120	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R121	1-216-073-00	RES,CHIP	10K	5%	1/10W
R122	1-216-041-00	RES,CHIP	470	5%	1/10W
R123	1-216-031-00	RES,CHIP	180	5%	1/10W
R124	1-216-049-00	RES,CHIP	1K	5%	1/10W
R125	1-216-081-00	RES,CHIP	22K	5%	1/10W
R126	1-216-025-00	RES,CHIP	100	5%	1/10W
R127	1-216-081-00	RES,CHIP	22K	5%	1/10W
R128	1-216-035-00	RES,CHIP	270	5%	1/10W
R129	1-216-037-00	RES,CHIP	330	5%	1/10W
R130	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R131	1-216-073-00	RES,CHIP	10K	5%	1/10W
R132	1-216-025-00	RES,CHIP	100	5%	1/10W
R133	1-216-041-00	RES,CHIP	470	5%	1/10W
R134	1-216-001-00	RES,CHIP	10	5%	1/10W
R135	1-216-045-00	RES,CHIP	680	5%	1/10W
R136	1-216-033-00	RES,CHIP	220	5%	1/10W
R137	1-216-049-00	RES,CHIP	1K	5%	1/10W
R138	1-216-041-00	RES,CHIP	470	5%	1/10W
R142	1-216-295-00	SHORT	0		
R143	1-216-295-00	SHORT	0		
R145	1-216-025-00	RES,CHIP	100	5%	1/10W
R146	1-216-025-00	RES,CHIP	100	5%	1/10W
R147	1-216-025-00	RES,CHIP	100	5%	1/10W
R148	1-216-025-00	RES,CHIP	100	5%	1/10W
R149	1-216-025-00	RES,CHIP	100	5%	1/10W
R150	1-216-025-00	RES,CHIP	100	5%	1/10W
R151	1-216-025-00	RES,CHIP	100	5%	1/10W
R153	1-216-025-00	RES,CHIP	100	5%	1/10W
R154	1-216-295-00	SHORT	0		
R156	1-216-089-00	RES,CHIP	47K	5%	1/10W
R157	1-216-089-00	RES,CHIP	47K	5%	1/10W
R158	1-216-073-00	RES,CHIP	10K	5%	1/10W
R159	1-216-049-00	RES,CHIP	1K	5%	1/10W
R160	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R161	1-216-033-00	RES,CHIP	220	5%	1/10W
R162	1-216-109-00	RES,CHIP	330K	5%	1/10W
R163	1-216-033-00	RES,CHIP	220	5%	1/10W
R164	1-216-089-91	RES,CHIP	47K	5%	1/10W
R165	1-216-089-91	RES,CHIP	47K	5%	1/10W
R166	1-216-033-00	RES,CHIP	220	5%	1/10W
R167	1-216-043-91	RES,CHIP	560	5%	1/10W
R168	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R169	1-216-049-00	RES,CHIP	1K	5%	1/10W
R170	1-216-025-00	RES,CHIP	100	5%	1/10W
R171	1-216-097-00	RES,CHIP	100K	5%	1/10W
R172	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R173	1-216-025-00	RES,CHIP	100	5%	1/10W
R174	1-208-797-11	METAL CHIP	4.3K	0.5%	1/10W
R175	1-208-784-11	METAL CHIP	1.2K	0.5%	1/10W
R176	1-216-295-00	SHORT	0		
R177	1-216-049-00	RES,CHIP	1K	5%	1/10W
R178	1-216-295-00	SHORT	0		
R179	1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W
R180	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R181	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R182	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R183	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R184	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R185	1-216-043-91	RES,CHIP	560	5%	1/10W
R186	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R187	1-216-049-00	RES,CHIP	1K	5%	1/10W
R188	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R189	1-216-043-91	RES,CHIP	560	5%	1/10W
R190	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R191	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R192	1-216-049-00	RES,CHIP	1K	5%	1/10W
R193	1-216-049-00	RES,CHIP	1K	5%	1/10W
R194	1-216-049-00	RES,CHIP	1K	5%	1/10W
R195	1-216-049-00	RES,CHIP	1K	5%	1/10W
R196	1-216-049-00	RES,CHIP	1K	5%	1/10W
R197	1-216-049-00	RES,CHIP	1K	5%	1/10W
R198	1-216-033-00	RES,CHIP	220	5%	1/10W
R199	1-216-033-00	RES,CHIP	220	5%	1/10W
R200	1-216-049-00	RES,CHIP	1K	5%	1/10W
R201	1-216-033-00	RES,CHIP	220	5%	1/10W
R202	1-216-033-00	RES,CHIP	220	5%	1/10W
R203	1-216-025-00	RES,CHIP	100	5%	1/10W
R204	1-216-025-00	RES,CHIP	100	5%	1/10W
R205	1-216-689-11	RES,CHIP	39K	5%	1/10W
R206	1-216-033-00	RES,CHIP	220	5%	1/10W
R207	1-216-089-00	RES,CHIP	47K	5%	1/10W
R208	1-216-041-00	RES,CHIP	470	5%	1/10W
R209	1-216-049-00	RES,CHIP	1K	5%	1/10W
R210	1-216-017-00	RES,CHIP	47	5%	1/10W
R211	1-216-033-00	RES,CHIP	220	5%	1/10W
R212	1-216-022-00	RES,CHIP	75	5%	1/10W
R213	1-216-022-00	RES,CHIP	75	5%	1/10W
R214	1-216-025-00	RES,CHIP	100	5%	1/10W
R216	1-216-025-00	RES,CHIP	100	5%	1/10W
R217	1-216-113-00	RES,CHIP	470K	5%	1/10W
R218	1-216-025-00	RES,CHIP	100	5%	1/10W
R219	1-216-113-00	RES,CHIP	470K	5%	1/10W
R220	1-216-295-00	SHORT	0		
R221	1-216-039-00	RES,CHIP	390	5%	1/10W
R222	1-216-089-00	RES,CHIP	47K	5%	1/10W
R223	1-216-295-00	SHORT	0		
R224	1-216-039-00	RES,CHIP	390	5%	1/10W
R225	1-216-089-00	RES,CHIP	47K	5%	1/10W
R226	1-216-033-00	RES,CHIP	220	5%	1/10W
R227	1-216-022-00	RES,CHIP	75	5%	1/10W
R228	1-216-022-00	RES,CHIP	75	5%	1/10W
R229	1-216-033-00	RES,CHIP	220	5%	1/10W
R230	1-216-022-00	RES,CHIP	75	5%	1/10W
R232	1-216-025-00	RES,CHIP	100	5%	1/10W
R233	1-216-025-00	RES,CHIP	100	5%	1/10W
R234	1-216-113-00	RES,CHIP	470K	5%	1/10W
R235	1-216-025-00	RES,CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R236	1-216-113-00	RES,CHIP	470K	5%	1/10W
R237	1-216-295-00	SHORT	0		
R238	1-216-089-00	RES,CHIP	47K	5%	1/10W
R239	1-216-039-00	RES,CHIP	390	5%	1/10W
R240	1-216-295-00	SHORT	0		
R241	1-216-089-00	RES,CHIP	47K	5%	1/10W
R242	1-216-039-00	RES,CHIP	390	5%	1/10W
R243	1-216-033-00	RES,CHIP	220	5%	1/10W
R244	1-216-033-00	RES,CHIP	220	5%	1/10W
R248	1-216-025-00	RES,CHIP	100	5%	1/10W
R249	1-216-001-00	RES,CHIP	10	5%	1/10W
R250	1-216-033-00	RES,CHIP	220	5%	1/10W
R251	1-216-025-00	RES,CHIP	100	5%	1/10W
R252	1-216-025-00	RES,CHIP	100	5%	1/10W
R253	1-216-025-00	RES,CHIP	100	5%	1/10W
R254	1-216-025-00	RES,CHIP	100	5%	1/10W
R255	1-216-025-00	RES,CHIP	100	5%	1/10W
R256	1-216-025-00	RES,CHIP	100	5%	1/10W
R257	1-216-073-00	RES,CHIP	10K	5%	1/10W
R258	1-216-017-00	RES,CHIP	47	5%	1/10W
R259	1-216-041-00	RES,CHIP	470	5%	1/10W
R264	1-216-089-91	RES,CHIP	47K	5%	1/10W
R265	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R266	1-216-081-00	RES,CHIP	22K	5%	1/10W
R267	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R268	1-216-089-91	RES,CHIP	47K	5%	1/10W
R269	1-216-089-91	RES,CHIP	47K	5%	1/10W
R270	1-216-022-00	RES,CHIP	75	5%	1/10W
R271	1-216-022-00	RES,CHIP	75	5%	1/10W
R272	1-216-022-00	RES,CHIP	75	5%	1/10W
R273	1-216-022-00	RES,CHIP	75	5%	1/10W
R274	1-216-089-91	RES,CHIP	47K	5%	1/10W
R280	1-216-049-00	RES,CHIP	1K	5%	1/10W
R281	1-216-089-00	RES,CHIP	47K	5%	1/10W
R282	1-216-093-91	RES,CHIP	68K	5%	1/10W
R283	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R284	1-216-089-00	RES,CHIP	47K	5%	1/10W
R285	1-216-093-91	RES,CHIP	68K	5%	1/10W
R286	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R291	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R292	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R293	1-216-089-00	RES,CHIP	47K	5%	1/10W
R294	1-216-097-00	RES,CHIP	100K	5%	1/10W
R295	1-216-049-00	RES,CHIP	1K	5%	1/10W
R296	1-216-049-00	RES,CHIP	1K	5%	1/10W
R297	1-216-033-00	RES,CHIP	220	5%	1/10W
R298	1-216-033-00	RES,CHIP	220	5%	1/10W
R299	1-216-073-00	RES,CHIP	10K	5%	1/10W
R300	1-216-025-00	RES,CHIP	100	5%	1/10W
R301	1-216-033-00	RES,CHIP	220	5%	1/10W
R302	1-216-295-00	SHORT	0		
R303	1-216-295-00	SHORT	0		
R304	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R305	1-216-033-00	RES,CHIP	220	5%	1/10W
R308	1-216-025-00	RES,CHIP	100	5%	1/10W
R309	1-216-033-00	RES,CHIP	220	5%	1/10W
R310	1-216-033-00	RES,CHIP	220	5%	1/10W
R315	1-216-295-00	SHORT	0		
R316	1-216-033-00	RES,CHIP	220	5%	1/10W
R320	1-216-025-00	RES,CHIP	100	5%	1/10W
R321	1-216-025-00	RES,CHIP	100	5%	1/10W
R322	1-216-025-00	RES,CHIP	100	5%	1/10W
R323	1-216-033-00	RES,CHIP	220	5%	1/10W
R325	1-216-089-91	RES,CHIP	47K	5%	1/10W
R326	1-216-025-00	RES,CHIP	100	5%	1/10W
R327	1-216-025-00	RES,CHIP	100	5%	1/10W
R329	1-216-089-00	RES,CHIP	47K	5%	1/10W
R330	1-216-025-00	RES,CHIP	100	5%	1/10W
R331	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R332	1-216-049-00	RES,CHIP	1K	5%	1/10W
R333	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R334	1-216-041-00	RES,CHIP	470	5%	1/10W
R335	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R336	1-216-109-00	RES,CHIP	330K	5%	1/10W
R337	1-216-025-00	RES,CHIP	100	5%	1/10W
R338	1-216-049-00	RES,CHIP	1K	5%	1/10W
R339	1-216-049-00	RES,CHIP	1K	5%	1/10W
R340	1-216-025-00	RES,CHIP	100	5%	1/10W
R341	1-216-025-00	RES,CHIP	100	5%	1/10W
R342	1-216-049-00	RES,CHIP	1K	5%	1/10W
R343	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R344	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R345	1-216-025-00	RES,CHIP	100	5%	1/10W
R347	1-216-025-00	RES,CHIP	100	5%	1/10W
R348	1-216-025-00	RES,CHIP	100	5%	1/10W
R349	1-216-025-00	RES,CHIP	100	5%	1/10W
R350	1-216-041-00	RES,CHIP	470	5%	1/10W
R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R352	1-216-077-91	RES,CHIP	15K	5%	1/10W
R353	1-216-033-00	RES,CHIP	220	5%	1/10W
R354	1-216-295-00	SHORT	0		
R355	1-216-093-91	RES,CHIP	68K	5%	1/10W
R356	1-216-133-91	RES,CHIP	3.3M	5%	1/10W
R357	1-216-049-00	RES,CHIP	1K	5%	1/10W
R358	1-216-105-00	RES,CHIP	220K	5%	1/10W
R359	1-216-295-00	SHORT	0		
R360	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R361	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R370	1-216-295-00	SHORT	0		
R371	1-216-033-00	RES,CHIP	220	5%	1/10W
R373	1-216-049-00	RES,CHIP	1K	5%	1/10W
R374	1-216-041-00	RES,CHIP	470	5%	1/10W
R375	1-216-049-00	RES,CHIP	1K	5%	1/10W
R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R377	1-216-049-00	RES,CHIP	1K	5%	1/10W
R378	1-208-811-11	METAL CHIP	16K	0.5%	1/10W
R379	1-216-041-00	RES,CHIP	470	5%	1/10W
R1001	1-216-025-00	RES,CHIP	100	5%	1/10W
R1002	1-216-025-00	RES,CHIP	100	5%	1/10W
R1010	1-216-295-00	SHORT	0		
R1012	1-216-041-00	RES,CHIP	470	5%	1/10W
R1014	1-216-065-00	RES,CHIP	4.7K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1017	1-216-295-00	SHORT	0		
R1020	1-216-097-00	RES,CHIP	100K	5%	1/10W
R1021	1-216-029-00	RES,CHIP	150	5%	1/10W
R1022	1-216-029-00	RES,CHIP	150	5%	1/10W
R1023	1-216-029-00	RES,CHIP	150	5%	1/10W
R1024	1-216-045-00	RES,CHIP	680	5%	1/10W
R1026	1-216-025-00	RES,CHIP	100	5%	1/10W
R1027	1-216-025-00	RES,CHIP	100	5%	1/10W
R1028	1-216-025-00	RES,CHIP	100	5%	1/10W
		<TUNER>			
TU101 ⚠	1-693-340-14	TUNER/VIF			
		<CRYSTAL>			
X1	1-767-154-21	VIBRATOR, CERAMIC (11.5MHz)			
X201	1-760-628-11	VIBRATOR, CRYSTAL (18.432MHz)			
X301	1-567-504-11	OSCILLATOR, CRYSTAL (4.43MHz)			
X302	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)			
X303	1-767-127-11	VIBRATOR, CERAMIC (500kHz)			
X1001	1-579-965-21	VIBRATOR, CRYSTAL (20.48MHz)			
**********					
*	A-1637-023-A	G BOARD, COMPLETE			
		**********			
*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C6001 ⚠	1-104-706-51	MYLAR	0.22µF	20%	250V
C6002	1-117-703-11	CERAMIC	0.0047µF	99%	250V
C6003 ⚠	1-161-830-91	CERAMIC	0.0047µF		500V
C6004 ⚠	1-104-706-11	MYLAR	0.22µF	20%	250V
C6005 ⚠	1-161-830-00	CERAMIC	0.0047µF		500V
C6006 ⚠	1-119-893-51	CERAMIC	1000pF	20%	250V
C6007	1-107-678-11	ELECT	4.7µF	20%	450V
C6008 ⚠	1-161-830-91	CERAMIC	0.0047µF		500V
C6009 ⚠	1-161-830-91	CERAMIC	0.0047µF		500V
C6010 ⚠	1-119-893-51	CERAMIC	1000pF	20%	250V
C6014	1-117-753-11	ELECT(BLOCK)	470µF	20%	450V
C6015	1-104-664-11	ELECT	47µF	20%	25V
C6016	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6017	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6018	1-136-479-11	FILM	0.001µF	2%	50V
C6019	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6020	1-126-963-11	ELECT	4.7µF	20%	50V
C6021	1-126-964-11	ELECT	10µF	20%	50V
C6023	1-104-665-11	ELECT	100µF	20%	25V
C6024	1-126-967-11	ELECT	47µF	20%	50V
C6025	1-136-165-00	FILM	0.1µF	5%	50V
C6026	1-126-964-11	ELECT	10µF	20%	50V
C6027	1-164-625-11	CERAMIC	680pF	10%	500V
C6029	1-164-625-11	CERAMIC	680pF	10%	500V
C6030	1-104-665-11	ELECT	100µF	20%	25V
C6031	1-115-405-11	FILM	0.039µF	3%	1KV
C6033	1-101-810-00	CERAMIC	100pF	5%	500V
C6034	1-101-810-00	CERAMIC	100pF	5%	500V
C6035	1-102-114-00	CERAMIC	470pF	10%	50V
C6036	1-102-114-00	CERAMIC	470pF	10%	50V
C6037	1-126-960-11	ELECT	1µF	20%	50V
C6038	1-126-768-11	ELECT	2200µF	20%	16V
C6039	1-102-114-00	CERAMIC	470pF	10%	50V
C6040	1-102-114-00	CERAMIC	470pF	10%	50V
C6041	1-126-972-11	ELECT	1000µF	20%	50V
C6042	1-126-972-11	ELECT	1000µF	20%	50V
C6043	1-104-665-11	ELECT	100µF	20%	25V
C6044	1-107-641-11	ELECT	220µF	20%	160V
C6045	1-109-954-11	ELECT	0.47µF	20%	160V
C6046	1-102-114-00	CERAMIC	470pF	10%	50V
C6047	1-102-114-00	CERAMIC	470pF	10%	50V
C6048	1-126-943-11	ELECT	2200µF	20%	25V
C6049	1-128-548-11	ELECT	4700µF	20%	25V
C6050	1-126-935-11	ELECT	470µF	20%	6.3V
C6051	1-126-943-11	ELECT	2200µF	20%	25V
C6052	1-104-665-11	ELECT	100µF	20%	25V
C6053	1-104-665-11	ELECT	100µF	20%	25V
C6054	1-104-665-11	ELECT	100µF	20%	25V
C6055	1-107-641-11	ELECT	220µF	20%	160V
C6056	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
		<CONNECTOR>			
CN6001	1-695-915-11	TAB (CONTACT)			
CN6002	1-695-915-11	TAB (CONTACT)			
CN6003	1-695-915-11	TAB (CONTACT)			
CN6005	1-580-843-11	PIN, CONNECTOR (POWER)			
CN6006 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN6007*	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
CN6008*	1-564-509-11	PLUG, CONNECTOR 6P			
CN6009*	1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P			
CN6010*	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
CN6011*	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
		<DIODE>			
D6001 ⚠	8-719-068-00	DIODE ERC04-06SE			
D6002 ⚠	8-719-068-00	DIODE ERC04-06SE			
D6003 ⚠	8-719-068-00	DIODE ERC04-06SE			
D6004	8-719-988-61	DIODE 1SS355TE-17			
D6005	8-719-073-23	DIODE ST02D-200TA			
D6007 ⚠	8-719-510-63	DIODE D4SB60L-F			
D6008	8-719-110-14	DIODE RD9.1ES-B3			
D6009	8-719-991-33	DIODE 1SS133T-77			
D6010	8-719-063-74	DIODE D1NL20U-TR2			
D6011	8-719-979-64	DIODE UF4005PKG23			
D6012	8-719-063-74	DIODE D1NL20U-TR2			
D6013	8-719-018-83	DIODE D2S4M			
D6014	8-719-018-83	DIODE D2S4M			
D6015	8-719-991-33	DIODE 1SS133T-77			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D6016	8-719-052-91	DIODE D4SBS4-F	
D6017	8-719-312-47	DIODE RBA-406B	
D6018	8-719-031-78	DIODE S2L40F	
D6019	8-719-031-78	DIODE S2L40F	
D6020	8-719-991-33	DIODE 1SS133T-77	
D6021	8-719-057-96	DIODE D10SC6M-4012	
D6022	8-719-921-88	DIODE MTZJ-13B	
		<FUSE>	
F6001	⚠ 1-576-232-21	FUSE (H.B.C.) (5A/250V)	
		<FERRITE BEAD>	
FB6001	⚠ 1-410-397-31	FERRITE 1.1µH	
FB6002	1-410-397-21	FERRITE 1.1µH	
FB6003	⚠ 1-410-397-31	FERRITE 1.1µH	
		<FUSE>	
FH6001	* 1-533-725-11	HOLDER, FUSE	
		<IC>	
IC6001	⚠ 8-759-468-89	IC TOP209P	
IC6002	8-759-670-30	IC MCZ3001D	
IC6003	⚠ 8-749-924-35	PHOTO COUPLER ON3171-R	
IC6004	⚠ 8-749-924-35	PHOTO COUPLER ON3171-R	
IC6005	8-749-920-61	IC SE135N	
		<CHIP CONDUCTOR>	
JR6001	1-216-864-11	SHORT 0	
JR6002	1-216-864-11	SHORT 0	
		<COIL>	
L6003	1-412-525-31	INDUCTOR 10µH	
L6004	1-412-525-31	INDUCTOR 10µH	
L6005	1-412-525-31	INDUCTOR 10µH	
L6006	1-412-523-41	INDUCTOR 6.8µH	
L6007	1-412-523-41	INDUCTOR 6.8µH	
L6008	1-412-525-31	INDUCTOR 10µH	
L6009	1-412-525-31	INDUCTOR 10µH	
L6010	1-412-525-31	INDUCTOR 10µH	
L6011	1-412-533-21	INDUCTOR 47µH	
		<IC LINK>	
PS6001	⚠ 1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)	
PS6002	⚠ 1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)	
PS6003	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
		<TRANSISTOR>	
Q6001	8-729-056-60	TRANSISTOR SPA07N60C2	
Q6002	8-729-056-60	TRANSISTOR SPA07N60C2	
Q6003	8-729-140-97	TRANSISTOR 2SB734-34	
Q6004	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
Q6005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6006	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q6007	8-729-820-82	TRANSISTOR 2SA1208	
Q6008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R6001	⚠ 1-202-885-91	SOLID 1M 20% 1/2W	
R6002	⚠ 1-212-849-61	FUSIBLE 4.7 5% 1/4W	
R6003	1-215-858-00	METAL OXIDE 15 5% 1W	
R6005	1-216-089-91	RES-CHIP 47K 5% 1/10W	
R6006	⚠ 1-219-720-91	METAL 10M 5% 1W	
R6007	1-216-089-91	RES-CHIP 47K 5% 1/10W	
R6009	1-247-791-91	CARBON 22 5% 1/4W	
R6010	⚠ 1-220-778-11	FUSIBLE 0.1 10% 1/2W	
R6011	1-215-444-00	METAL 9.1K 1% 1/4W	
R6012	1-208-758-11	METAL CHIP 100 0.5% 1/10W	
R6013	1-208-808-11	METAL CHIP 12K 0.5% 1/10W	
R6014	1-249-413-11	CARBON 470 5% 1/4W	
R6015	1-249-377-11	CARBON 0.47 5% 1/4W	
R6016	1-215-395-00	METAL 82 1% 1/4W	
R6017	1-215-481-00	METAL 330K 1% 1/4W	
R6018	1-215-481-00	METAL 330K 1% 1/4W	
R6019	1-216-001-00	RES-CHIP 10 5% 1/10W	
R6020	1-216-001-00	RES-CHIP 10 5% 1/10W	
R6021	1-215-481-00	METAL 330K 1% 1/4W	
R6022	1-249-417-11	CARBON 1K 5% 1/4W	
R6023	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R6024	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R6025	1-217-625-00	METAL 0.05 10% 2W	
R6026	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R6027	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R6028	1-249-417-11	CARBON 1K 5% 1/4W	
R6029	1-249-377-11	CARBON 0.47 5% 1/4W	
R6030	1-249-377-11	CARBON 0.47 5% 1/4W	
R6031	1-249-377-11	CARBON 0.47 5% 1/4W	
R6032	1-249-377-11	CARBON 0.47 5% 1/4W	
R6033	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R6034	1-249-377-11	CARBON 0.47 5% 1/4W	
R6035	1-249-377-11	CARBON 0.47 5% 1/4W	
R6036	1-249-417-11	CARBON 1K 5% 1/4W	
R6037	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R6038	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R6039	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R6040	1-216-041-00	RES-CHIP 470 5% 1/10W	
R6041	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R6042	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R6046	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R6047	1-249-413-11	CARBON 470 5% 1/4W	
R6048	1-215-477-00	METAL 220K 1% 1/4W	
R6049	1-249-417-11	CARBON 1K 5% 1/4W	
R6050	1-249-441-11	CARBON 100K 5% 1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6051	1-216-366-00	METAL OXIDE	0.56	5%	2W
R6052	1-215-477-00	METAL	220K	1%	1/4W
R6053	1-249-417-11	CARBON	1K	5%	1/4W
R6054	1-215-453-00	METAL	22K	1%	1/4W
R6055	1-215-476-00	METAL	200K	1%	1/4W
R6056	1-216-353-00	METAL OXIDE	2.2	5%	1W
		<RELAY>			
RY6001 ⚠	1-755-352-11	RELAY, AC POWER			
		<TRANSFORMER>			
T6001 ⚠	1-433-488-11	TRANSFORMER, LINE FILTER			
T6002 ⚠	1-431-732-21	TRANSFORMER, CONVERTER (SRT)			
T6003 ⚠	1-429-807-12	TRANSFORMER, CONVERTER (PIT)			
T6004 ⚠	1-424-861-11	COIL, CHOKE	42µH		
		<THERMISTOR>			
TH6001	1-803-586-41	THERMISTOR			
		<VARISTOR>			
VD6001 ⚠	1-803-830-31	VARISTOR (ERZV14D621)			
**********					
	* A-1638-150-A	CB BOARD, COMPLETE			
		**********			
	4-051-602-11	SHEET, RADIATION			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C762	1-126-964-11	ELECT	10µF	20%	50V
C763	1-161-754-00	CERAMIC	0.001µF	10%	2KV
C764	1-102-117-00	CERAMIC	820pF	10%	50V
C765	1-161-830-00	CERAMIC	0.0047µF		500V
C766	1-162-115-00	CERAMIC	330pF	10%	2KV
C767	1-107-662-11	ELECT	22µF	20%	250V
C768	1-101-880-00	CERAMIC	47pF	5%	50V
C769	1-104-664-11	ELECT	47µF	20%	25V
C772	1-104-660-91	ELECT	47µF	20%	16V
		<CONNECTOR>			
CN761	1-695-915-11	TAB (CONTACT)			
CN762	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN763	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
CN764 ⚠	1-251-182-41	SOCKET, PICTURE TUBE			
CN765	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN766	* 1-764-333-11	PLUG, CONNECTOR 10P			
		<DIODE>			
D761	8-719-991-33	DIODE 1SS133T-77			
D762	8-719-991-33	DIODE 1SS133T-77			
D763	8-719-991-33	DIODE 1SS133T-77			
D765	8-719-991-33	DIODE 1SS133T-77			
D766	8-719-991-33	DIODE 1SS133T-77			
		<COIL>			
L761	1-408-623-31	INDUCTOR	470µH		
L762	1-408-617-31	INDUCTOR	150µH		
		<TRANSISTOR>			
Q761	8-729-200-17	TRANSISTOR 2SA1091-O			
Q762	8-729-045-56	TRANSISTOR 2SC2611-15			
Q763	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q764	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q765	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R761	1-219-743-11	CARBON	100	5%	1/2W
R762	1-260-132-11	CARBON	560K	5%	1/2W
R763	1-216-487-11	METAL OXIDE	12K	5%	3W
R764	1-216-487-11	METAL OXIDE	12K	5%	3W
R765	1-247-807-31	CARBON	100	5%	1/4W
R766	1-260-328-11	CARBON	1K	5%	1/2W
R767	1-249-425-11	CARBON	4.7K	5%	1/4W
R768	1-260-133-11	CARBON	680K	5%	1/2W
R769	1-202-818-00	SOLID	1K	20%	1/2W
R770	1-249-406-11	CARBON	120	5%	1/4W
R771	1-219-743-11	CARBON	100	5%	1/2W
R772	1-247-791-91	CARBON	22	5%	1/4W
R773	1-247-807-31	CARBON	100	5%	1/4W
R776	1-249-437-11	CARBON	47K	5%	1/4W
R777	1-215-436-00	METAL	4.3K	1%	1/4W
R778	1-202-814-11	SOLID	33K	20%	1/2W
R779	1-249-409-11	CARBON	220	5%	1/4W
R781	1-249-438-11	CARBON	56K	5%	1/4W
R782	1-249-433-11	CARBON	22K	5%	1/4W
		<SPARK GAP>			
SG761	1-519-422-11	GAP, SPARK			
SG762	1-519-422-11	GAP, SPARK			
SG763	1-519-422-11	GAP, SPARK			
**********					
	* A-1638-151-A	CG BOARD, COMPLETE			
		**********			
	4-051-602-11	SHEET, RADIATION			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C733	1-161-754-00	CERAMIC	0.001µF	10%	2KV
C734	1-102-114-00	CERAMIC	470pF	10%	50V
C735	1-161-830-00	CERAMIC	0.0047µF		500V
C736	1-162-115-00	CERAMIC	330pF	10%	2KV

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C737	1-107-662-11	ELECT	22µF	20%	250V
C738	1-101-880-00	CERAMIC	47pF	5%	50V
C739	1-104-664-11	ELECT	47µF	20%	25V
		<CONNECTOR>			
CN731	1-695-915-11	TAB (CONTACT)			
CN732	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN733	* 1-564-511-11	PLUG, CONNECTOR 8P			
CN734	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
CN735	⚠ 1-251-182-41	SOCKET, PICTURE TUBE			
CN736	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN737	* 1-564-512-11	PLUG, CONNECTOR 9P			
		<DIODE>			
D731	8-719-991-33	DIODE 1SS133T-77			
D732	8-719-991-33	DIODE 1SS133T-77			
D733	8-719-991-33	DIODE 1SS133T-77			
D735	8-719-991-33	DIODE 1SS133T-77			
D736	8-719-991-33	DIODE 1SS133T-77			
		<COIL>			
L731	1-408-623-31	INDUCTOR	470µH		
L732	1-408-617-31	INDUCTOR	150µH		
		<TRANSISTOR>			
Q731	8-729-200-17	TRANSISTOR 2SA1091-O			
Q732	8-729-045-56	TRANSISTOR 2SC2611-15			
Q733	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q734	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R731	1-219-743-11	CARBON	100	5%	1/2W
R732	1-260-132-11	CARBON	560K	5%	1/2W
R733	1-216-487-11	METAL OXIDE	12K	5%	3W
R734	1-216-487-11	METAL OXIDE	12K	5%	3W
R735	1-247-807-31	CARBON	100	5%	1/4W
R736	1-249-425-11	CARBON	4.7K	5%	1/4W
R737	1-260-328-11	CARBON	1K	5%	1/2W
R738	1-249-406-11	CARBON	120	5%	1/4W
R739	1-260-133-11	CARBON	680K	5%	1/2W
R740	1-202-818-00	SOLID	1K	20%	1/2W
R741	1-247-791-91	CARBON	22	5%	1/4W
R742	1-249-409-11	CARBON	220	5%	1/4W
R744	1-247-891-00	CARBON	330K	5%	1/4W
R746	1-202-814-11	SOLID	33K	20%	1/2W
		<SPARK GAP>			
SG731	1-519-422-11	GAP, SPARK			
SG732	1-519-422-11	GAP, SPARK			
SG733	1-519-422-11	GAP, SPARK			

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1638-152-A	CR BOARD, COMPLETE			
		**********			
	4-051-602-11	SHEET, RADIATION			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C702	1-102-112-00	CERAMIC	330pF	10%	50V
C703	1-104-664-11	ELECT	47µF	20%	25V
C705	1-161-754-00	CERAMIC	0.001µF	10%	2KV
C708	1-101-880-00	CERAMIC	47pF	5%	50V
C709	1-162-115-00	CERAMIC	330pF	10%	2KV
C712	1-107-662-11	ELECT	22µF	20%	250V
C713	1-104-660-91	ELECT	47µF	20%	16V
		<CONNECTOR>			
CN701	1-695-915-11	TAB (CONTACT)			
CN702	* 1-564-511-11	PLUG, CONNECTOR 8P			
CN703	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN704	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
CN705	⚠ 1-251-182-41	SOCKET, PICTURE TUBE			
CN706	* 1-564-512-11	PLUG, CONNECTOR 9P			
		<DIODE>			
D701	8-719-991-33	DIODE 1SS133T-77			
D704	8-719-991-33	DIODE 1SS133T-77			
D705	8-719-991-33	DIODE 1SS133T-77			
D706	8-719-991-33	DIODE 1SS133T-77			
D708	8-719-991-33	DIODE 1SS133T-77			
D709	8-719-109-84	DIODE RD5.1ESB1			
		<COIL>			
L701	1-410-682-31	INDUCTOR	470µH		
L702	1-408-617-31	INDUCTOR	150µH		
		<TRANSISTOR>			
Q701	8-729-200-17	TRANSISTOR 2SA1091-O			
Q703	8-729-045-56	TRANSISTOR 2SC2611-15			
Q704	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q705	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q706	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R701	1-219-743-11	CARBON	100	5%	1/2W
R704	1-260-132-11	CARBON	560K	5%	1/2W
R706	1-249-425-11	CARBON	4.7K	5%	1/4W
R707	1-247-807-31	CARBON	100	5%	1/4W
R708	1-249-408-11	CARBON	180	5%	1/4W
R709	1-260-328-11	CARBON	1K	5%	1/2W
R710	1-247-791-91	CARBON	22	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R711	1-216-487-11	METAL OXIDE	12K	5%	3W
R712	1-216-487-11	METAL OXIDE	12K	5%	3W
R714	1-202-818-00	SOLID	1K	20%	1/2W
R715	1-260-133-11	CARBON	680K	5%	1/2W
R716	1-249-409-11	CARBON	220	5%	1/4W
R717	1-249-435-11	CARBON	33K	5%	1/4W
R718	1-249-437-11	CARBON	47K	5%	1/4W
R719	1-219-743-11	CARBON	100	5%	1/2W
R721	1-202-814-11	SOLID	33K	20%	1/2W
R722	1-249-433-11	CARBON	22K	5%	1/4W
R723	1-249-437-11	CARBON	47K	5%	1/4W
		<SPARK GAP>			
SG701	1-519-422-11	GAP, SPARK			
SG702	1-519-422-11	GAP, SPARK			
SG703	1-519-422-11	GAP, SPARK			
**********					
	* A-1346-678-A	D BOARD, COMPLETE (41PX1R)			
	* A-1642-284-A	D BOARD, COMPLETE (41PX1/41PX1K)			
		**********			
	4-201-023-01	SPACER, INSULATING			
	4-202-373-01	SPRING, IC			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C1501	1-163-005-91	CERAMIC CHIP	470pF	10%	50V
C1503	1-137-399-11	MYLAR	0.1µF	5%	100V
C1504	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C1506	1-126-969-11	ELECT	220µF	20%	50V
C1507	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1508	1-137-401-11	MYLAR	0.22µF	10%	100V
C1509	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1510	1-126-972-11	ELECT	1000µF	20%	50V
C1511	1-126-972-11	ELECT	1000µF	20%	50V
C1512	1-126-960-11	ELECT	1µF	20%	50V
C1513	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1514	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1516	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1517	1-126-964-11	ELECT	10µF	20%	50V
C1518	1-126-933-11	ELECT	100µF	20%	16V
C1519	1-126-933-11	ELECT	100µF	20%	16V
C1520	1-126-964-11	ELECT	10µF	20%	50V
C1521	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1523	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1524	1-136-177-00	FILM	1µF	5%	50V
C1525	1-104-665-11	ELECT	100µF	20%	25V
C1526	1-104-664-11	ELECT	47µF	20%	25V
C1527	1-163-145-00	CERAMIC CHIP	0.0015µF	5%	50V
C1528	1-163-145-00	CERAMIC CHIP	0.0015µF	5%	50V
C1529	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C1530	1-104-660-91	ELECT	47µF	20%	16V
C1531	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1532	1-126-960-11	ELECT	1µF	20%	50V
C1601	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C1602	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C1603	1-130-495-00	MYLAR	0.1µF	5%	50V
C1604	1-130-495-00	MYLAR	0.1µF	5%	50V
C1605	1-107-715-11	ELECT	22µF	20%	50V
C1606	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1607	1-137-150-11	MYLAR	0.01µF	5%	50V
C1608	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V (41PX1/41PX1K)
C1609	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V (41PX1/41PX1K)
C1610	1-126-960-11	ELECT	1µF	20%	50V
C1611	1-126-960-11	ELECT	1µF	20%	50V
C1612	1-126-960-11	ELECT	1µF	20%	50V
C1613	1-126-967-11	ELECT	47µF	20%	50V
C1614	1-126-967-11	ELECT	47µF	20%	50V
C1617	1-130-495-00	MYLAR	0.1µF	5%	50V
C1618	1-130-495-00	MYLAR	0.1µF	5%	50V
C1619	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1621	1-104-665-11	ELECT	100µF	20%	25V
C1622	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C1624	1-130-495-00	MYLAR	0.1µF	5%	50V
C1626	1-130-495-00	MYLAR	0.1µF	5%	50V
C1627	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C1628	1-126-964-11	ELECT	10µF	20%	50V
C1630	1-128-550-21	ELECT	2200µF	20%	50V
C1631	1-128-550-21	ELECT	2200µF	20%	50V
C1632	1-104-664-11	ELECT	47µF	20%	25V
C1633	1-104-664-11	ELECT	47µF	20%	25V
C1634	1-126-961-11	ELECT	2.2µF	20%	50V
C1635	1-104-666-11	ELECT	220µF	20%	25V
C1650	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1651	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1661	1-136-165-00	FILM	0.1µF	5%	50V (41PX1/41PX1K)
C1701	1-126-960-11	ELECT	1µF	20%	50V
C1702	1-126-960-11	ELECT	1µF	20%	50V
C1703	1-126-964-11	ELECT	10µF	20%	50V
C1704	1-126-964-11	ELECT	10µF	20%	50V
C1705	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1706	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1707	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1708	1-126-935-11	ELECT	470µF	20%	16V
C1709	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1710	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1711	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1715	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1716	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1717	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1718	1-126-968-11	ELECT	100µF	20%	50V
C1719	1-126-968-11	ELECT	100µF	20%	50V
C1720	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1721	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C1723	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C1724	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1725	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1726	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1727	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1802	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V	
C1803	1-126-935-11	ELECT	470µF	20%	16V	
C1804	1-126-964-11	ELECT	10µF	20%	50V	
C1805	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V	
C1806	1-104-665-11	ELECT	100µF	20%	25V	
C1807	1-126-964-11	ELECT	10µF	20%	50V	
C1808	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V	
C1809	1-104-665-11	ELECT	100µF	20%	25V	
C1810	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V	
C1811	1-104-665-11	ELECT	100µF	20%	25V	
C1812	1-126-964-11	ELECT	10µF	20%	50V	
C1813	1-104-666-11	ELECT	220µF	20%	25V	
C1814	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1815	1-104-666-11	ELECT	220µF	20%	25V	
C1816	1-126-964-11	ELECT	10µF	20%	50V	(41PX1R)
C1817	1-126-964-11	ELECT	10µF	20%	50V	(41PX1R)
C1818	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V	
C1819	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	(41PX1R)
C1820	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	(41PX1R)
C1821	1-126-964-11	ELECT	10µF	20%	50V	
C1822	1-164-005-11	CERAMIC CHIP	0.47µF		25V	(41PX1R)
C1822	1-216-295-91	SHORT	0	(41PX1/41PX1K)		
C1823	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	(41PX1R)
C1824	1-164-005-11	CERAMIC CHIP	0.47µF		25V	(41PX1R)
C1824	1-216-295-91	SHORT	0	(41PX1/41PX1K)		
C1825	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	(41PX1R)
C1826	1-104-665-11	ELECT	100µF	20%	25V	
C1827	1-104-664-11	ELECT	47µF	20%	25V	
C1828	1-104-664-11	ELECT	47µF	20%	25V	
C1829	1-104-664-11	ELECT	47µF	20%	25V	
C1830	1-126-964-11	ELECT	10µF	20%	50V	
C1831	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
		<CONNECTOR>				
CN1501 *	1-564-506-11	PLUG, CONNECTOR 3P				
CN1502	1-695-915-11	TAB (CONTACT)				
CN1601 *	1-564-508-11	PLUG, CONNECTOR 5P				
CN1604 *	1-564-507-11	PLUG, CONNECTOR 4P				
CN1605 *	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P				
CN1606 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P				
CN1701 *	1-564-511-11	PLUG, CONNECTOR 8P				
CN1702 *	1-564-516-11	PLUG, CONNECTOR 13P				
CN1703 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P				
CN1705 *	1-564-505-31	PLUG, CONNECTOR 2P				
CN1708 *	1-564-510-11	PLUG, CONNECTOR 7P				
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P				
CN1802 *	1-764-334-11	PLUG, CONNECTOR 11P				
CN1803 *	1-764-333-11	PLUG, CONNECTOR 10P				
CN1804 *	1-564-508-11	PLUG, CONNECTOR 5P				
CN1805 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P				
CN1806 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P				
CN1807 *	1-564-511-11	PLUG, CONNECTOR 8P (41PX1R)				
CN1805 *	1-564-510-11	PLUG, CONNECTOR 7P (41PX1R)				
		<DIODE>				
D1501	8-719-109-89	DIODE RD5.6ESB2				
D1502	8-719-908-03	DIODE GP08D				
D1503	8-719-908-03	DIODE GP08D				
D1504	8-719-991-33	DIODE 1SS133T-77				
D1505	8-719-988-61	DIODE 1SS355TE-17				
D1601	8-719-991-33	DIODE 1SS133T-77				
D1602	8-719-914-43	DIODE DAN202K				
D1603	8-719-991-33	DIODE 1SS133T-77				
D1604	8-719-991-33	DIODE 1SS133T-77				
D1605	8-719-914-43	DIODE DAN202K				
D1606	8-719-991-33	DIODE 1SS133T-77				
D1607	8-719-914-43	DIODE DAN202K				
D1611	8-719-921-86	DIODE MTZJ-13				
D1612	8-719-991-33	DIODE 1SS133T-77				
D1613	8-719-921-86	DIODE MTZJ-13				
D1614	8-719-991-33	DIODE 1SS133T-77				
D1615	8-719-991-33	DIODE 1SS133T-77				
D1616	8-719-991-33	DIODE 1SS133T-77				
D1617	8-719-403-00	DIODE MA3240-TX				
D1618	8-719-991-33	DIODE 1SS133T-77				
D1619	8-719-991-33	DIODE 1SS133T-77				
D1620	8-719-403-00	DIODE MA3240-TX				
D1621	8-719-403-00	DIODE MA3240-TX				
D1622	8-719-403-00	DIODE MA3240-TX				
D1703	8-719-109-89	DIODE RD5.6ESB2				
D1704	8-719-109-89	DIODE RD5.6ESB2				
D1705	8-719-109-84	DIODE RD5.1ESB1				
D1706	8-719-109-84	DIODE RD5.1ESB1				
D1707	8-719-109-84	DIODE RD5.1ESB1				
D1708	8-719-109-84	DIODE RD5.1ESB1				
D1709	8-719-109-81	DIODE RD4.7ESB2				
D1710	8-719-109-81	DIODE RD4.7ESB2				
D1711	8-719-109-81	DIODE RD4.7ESB2				
D1712	8-719-109-81	DIODE RD4.7ESB2				
D1801	8-719-923-60	DIODE MTZJ-T-77-9.1A				
D1802	8-719-923-60	DIODE MTZJ-T-77-9.1A				
D1803	8-719-108-12	DIODE RD9.1EW (41PX1R)				
D1804	8-719-923-60	DIODE MTZJ-T-77-9.1A				
D1805	8-719-108-12	DIODE RD9.1EW (41PX1R)				
D1806	8-719-923-60	DIODE MTZJ-T-77-9.1A				
		<IC>				
IC1501	8-759-192-71	IC STV9379				
IC1502	8-759-251-31	IC CA0007AM				
IC1503	8-759-998-98	IC LM358D				
IC1602	8-759-250-68	IC TDA7264				
IC1603	8-759-502-21	IC TDA2822M				

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1701	8-752-908-27	IC CXP86213-003S	
IC1702	8-759-675-64	IC M24C08-MN6T (A)	
IC1703	8-759-467-94	IC LM358D	
IC1704	8-759-467-94	IC LM358D	
IC1706	8-759-352-91	IC PST9143NL	
IC1801	8-759-390-57	IC LM2940CT-5.0	
IC1802	8-759-095-63	IC PQ09RF2	
IC1803	8-759-231-58	IC TA7812S	
IC1804	8-759-069-28	IC PQ05RF11	
IC1805	8-759-467-94	IC LM358D (41PX1R)	
		<JACK>	
J1601	1-784-653-11	JACK, PHONO 2P (AUDIO OUT)	
		<CHIP CONDUCTOR>	
JR1502	1-216-295-91	SHORT 0	
JR1503	1-216-295-91	SHORT 0	
JR1504	1-216-295-91	SHORT 0	
JR1505	1-216-295-91	SHORT 0	
JR1506	1-216-295-91	SHORT 0	
JR1508	1-216-295-91	SHORT 0	
JR1510	1-216-295-91	SHORT 0	
JR1511	1-216-295-91	SHORT 0	
JR1512	1-216-295-91	SHORT 0	
JR1513	1-216-295-91	SHORT 0	
JR1514	1-216-295-91	SHORT 0	
JR1701	1-216-295-91	SHORT 0	
		<COIL>	
L1501	1-412-524-11	INDUCTOR 8.2µH	
L1601	1-402-711-11	INDUCTOR 0µH	
L1602	1-402-711-11	INDUCTOR 0µH	
L1701	1-408-603-31	INDUCTOR 10µH	
L1702	1-408-598-31	INDUCTOR 3.9µH	
L1801	1-408-603-31	INDUCTOR 10µH (41PX1R)	
L1802	1-408-603-31	INDUCTOR 10µH (41PX1/41PX1K)	
		<TRANSISTOR>	
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1601	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1602	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1603	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1604	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1605	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1609	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1610	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1611	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1612	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1613	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1614	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1615	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1616	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1617	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1703	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1704	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1705	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1706	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1707	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1708	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1709	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1802	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1805	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R1501	1-216-353-00	METAL OXIDE 2.2 5% 1W	
R1502	1-208-802-11	METAL CHIP 6.8K 0.5% 1/10W	
R1504	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R1505	1-249-377-11	CARBON 0.47 5% 1/4W	
R1506	1-215-888-00	METAL OXIDE 220 5% 2W	
R1507	1-216-081-00	RES-CHIP 22K 5% 1/10W	
R1508	1-249-383-11	CARBON 1.5 5% 1/4W	
R1509	1-208-800-11	METAL CHIP 5.6K 0.5% 1/10W (41PX1/41PX1K)	
R1509	1-208-802-11	METAL CHIP 6.8K 0.5% 1/10W (41PX1R)	
R1510	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R1511	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R1512	1-216-085-91	RES-CHIP 33K 5% 1/10W	
R1513	1-216-049-00	RES-CHIP 1K 5% 1/10W	
R1514	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1515	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1516	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1517	1-216-081-00	RES-CHIP 22K 5% 1/10W	
R1518	1-216-353-00	METAL OXIDE 2.2 5% 1W	
R1519	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1520	1-216-089-00	RES-CHIP 47K 5% 1/10W	
R1521	1-216-097-00	RES-CHIP 100K 5% 1/10W	
R1522	1-216-089-91	RES-CHIP 47K 5% 1/10W	
R1525	1-216-083-00	RES-CHIP 27K 5% 1/10W	
R1526	1-216-083-00	RES-CHIP 27K 5% 1/10W	
R1527	1-216-121-11	RES-CHIP 1M 5% 1/10W (41PX1R)	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1527	1-216-129-00	RES-CHIP	2.2M	5%	1/10W (41PX1/41PX1K)
R1528	1-216-121-11	RES-CHIP	1M	5%	1/10W (41PX1R)
R1528	1-216-129-00	RES-CHIP	2.2M	5%	1/10W (41PX1/41PX1K)
R1529	1-216-025-00	RES-CHIP	100	5%	1/10W
R1530	1-216-097-00	RES-CHIP	100K	5%	1/10W
R1531	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1532	1-216-025-00	RES-CHIP	100	5%	1/10W
R1533	1-249-377-11	CARBON	0.47	5%	1/4W
R1534	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1537	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1538	1-216-083-00	RES-CHIP	27K	5%	1/10W
R1539	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1540	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1541	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1542	1-216-093-91	RES-CHIP	68K	5%	1/10W
R1543	1-216-093-91	RES-CHIP	68K	5%	1/10W
R1544	1-215-421-00	METAL	1K	1%	1/4W (41PX1/41PX1K)
R1601	1-216-025-00	RES-CHIP	100	5%	1/10W (41PX1R)
R1602	1-216-041-00	RES-CHIP	470	5%	1/10W
R1603	1-216-041-00	RES-CHIP	470	5%	1/10W
R1604	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1605	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1606	1-249-397-11	CARBON	22	5%	1/4W
R1607	1-249-397-11	CARBON	22	5%	1/4W
R1608	1-249-425-11	CARBON	4.7K	5%	1/4W
R1609	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1610	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1611	1-249-425-11	CARBON	4.7K	5%	1/4W
R1614	1-216-357-00	METAL OXIDE	4.7	5%	1W
R1615	1-216-357-00	METAL OXIDE	4.7	5%	1W
R1617	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R1618	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1620	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1625	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R1626	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R1629	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1630	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1631	1-249-389-11	CARBON	4.7	5%	1/4W
R1632	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1633	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1634	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1635	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1636	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1637	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1638	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1639	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1640	1-216-025-00	RES-CHIP	100	5%	1/10W
R1641	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1642	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1643	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1644	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1645	1-216-041-00	RES-CHIP	470	5%	1/10W
R1648	1-249-381-11	CARBON	1	5%	1/4W
R1649	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1650	1-216-033-00	RES-CHIP	220	5%	1/10W
R1651	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1652	1-216-099-00	RES-CHIP	120K	5%	1/10W
R1653	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1654	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1655	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1656	1-216-295-00	SHORT	0		(41PX1R)
R1701	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1702	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1703	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1704	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1705	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1706	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1707	1-216-025-00	RES-CHIP	100	5%	1/10W
R1708	1-216-025-00	RES-CHIP	100	5%	1/10W
R1709	1-216-025-00	RES-CHIP	100	5%	1/10W
R1710	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1711	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1712	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1713	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1714	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1715	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1716	1-216-033-00	RES-CHIP	220	5%	1/10W
R1717	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1718	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1719	1-216-033-00	RES-CHIP	220	5%	1/10W
R1720	1-216-033-00	RES-CHIP	220	5%	1/10W
R1721	1-216-033-00	RES-CHIP	220	5%	1/10W
R1722	1-216-033-00	RES-CHIP	220	5%	1/10W
R1725	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1726	1-216-295-91	SHORT	0		
R1727	1-216-033-00	RES-CHIP	220	5%	1/10W
R1728	1-216-025-00	RES-CHIP	100	5%	1/10W
R1729	1-216-025-00	RES-CHIP	100	5%	1/10W
R1730	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1731	1-216-033-00	RES-CHIP	220	5%	1/10W
R1732	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1733	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1734	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1735	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1736	1-216-033-00	RES-CHIP	220	5%	1/10W
R1737	1-216-033-00	RES-CHIP	220	5%	1/10W
R1738	1-216-025-00	RES-CHIP	100	5%	1/10W
R1739	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1740	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1741	1-216-033-00	RES-CHIP	220	5%	1/10W
R1742	1-216-033-00	RES-CHIP	220	5%	1/10W
R1743	1-216-025-00	RES-CHIP	100	5%	1/10W
R1744	1-216-033-00	RES-CHIP	220	5%	1/10W
R1745	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1746	1-216-025-00	RES-CHIP	100	5%	1/10W
R1747	1-216-025-00	RES-CHIP	100	5%	1/10W
R1748	1-216-025-00	RES-CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1749	1-216-033-00	RES-CHIP	220	5%	1/10W
R1750	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1751	1-216-033-00	RES-CHIP	220	5%	1/10W
R1752	1-216-025-00	RES-CHIP	100	5%	1/10W
R1753	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1754	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1755	1-216-025-00	RES-CHIP	100	5%	1/10W
R1756	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1757	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1758	1-216-025-00	RES-CHIP	100	5%	1/10W
R1759	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1760	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1762	1-216-063-91	RES-CHIP	3.9K	5%	1/10W (41PX1/41PX1K)
R1762	1-216-065-00	RES-CHIP	4.7K	5%	1/10W (41PX1R)
R1763	1-208-797-11	METAL CHIP	4.3K	0.5%	1/10W (41PX1R)
R1763	1-216-061-91	RES-CHIP	3.3K	5%	1/10W (41PX1/41PX1K)
R1764	1-216-063-91	RES-CHIP	3.9K	5%	1/10W (41PX1/41PX1K)
R1764	1-216-065-00	RES-CHIP	4.7K	5%	1/10W (41PX1R)
R1765	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1766	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1767	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1768	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1769	1-216-115-00	RES-CHIP	560K	5%	1/10W
R1770	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1771	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1772	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1773	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1774	1-216-025-00	RES-CHIP	100	5%	1/10W
R1775	1-216-115-00	RES-CHIP	560K	5%	1/10W
R1778	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1786	1-216-025-00	RES-CHIP	100	5%	1/10W
R1787	1-216-025-00	RES-CHIP	100	5%	1/10W
R1788	1-216-025-00	RES-CHIP	100	5%	1/10W
R1789	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1790	1-216-025-00	RES-CHIP	100	5%	1/10W
R1791	1-216-025-00	RES-CHIP	100	5%	1/10W
R1792	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1793	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1794	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1795	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1802	1-215-925-11	METAL OXIDE	22K	5%	3W
R1803	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1804	1-216-113-00	RES-CHIP	470K	5%	1/10W (41PX1R)
R1805	1-216-113-00	RES-CHIP	470K	5%	1/10W (41PX1R)
R1806	1-216-021-00	RES-CHIP	68	5%	1/10W (41PX1/41PX1K)
R1806	1-216-023-00	RES-CHIP	82	5%	1/10W (41PX1R)
R1807	1-216-059-00	RES-CHIP	2.7K	5%	1/10W (41PX1R)
R1807	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1808	1-216-059-00	RES-CHIP	2.7K	5%	1/10W (41PX1R)
R1808	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1809	1-216-097-00	RES-CHIP	100K	5%	1/10W
R1810	1-216-021-00	RES-CHIP	68	5%	1/10W (41PX1/41PX1K)
R1810	1-216-023-00	RES-CHIP	82	5%	1/10W (41PX1R)
R1811	1-216-025-00	RES-CHIP	100	5%	1/10W
R1812	1-216-025-00	RES-CHIP	100	5%	1/10W
R1813	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1814	1-216-023-00	RES-CHIP	82	5%	1/10W
R1815	1-216-025-00	RES-CHIP	100	5%	1/10W
R1816	1-216-025-00	RES-CHIP	100	5%	1/10W
R1817	1-216-025-00	RES-CHIP	100	5%	1/10W
R1818	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R1819	1-216-059-00	RES-CHIP	2.7K	5%	1/10W (41PX1R)
R1819	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1820	1-216-059-00	RES-CHIP	2.7K	5%	1/10W (41PX1R)
R1820	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1821	1-216-025-00	RES-CHIP	100	5%	1/10W
R1822	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1823	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1824	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1824	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1825	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1825	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1826	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1826	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1827	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1828	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1829	1-216-089-00	RES-CHIP	47K	5%	1/10W (41PX1R)
R1829	1-216-295-91	SHORT	0		(41PX1/41PX1K)
R1830	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1831	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1832	1-216-049-00	RES-CHIP	1K	5%	1/10W (41PX1R)
R1832	1-216-051-00	RES-CHIP	1.2K	5%	1/10W (41PX1/41PX1K)
R1833	1-216-041-00	RES-CHIP	470	5%	1/10W
R1834	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1835	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1836	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1837	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1838	1-216-041-00	RES-CHIP	470	5%	1/10W
R1839	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1840	1-216-049-00	RES-CHIP	1K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1841	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1842	1-216-049-00	RES-CHIP	1K	5%	1/10W (41PX1/R)
R1842	1-216-051-00	RES-CHIP	1.2K	5%	1/10W (41PX1/41PX1K)
R1843	1-216-041-00	RES-CHIP	470	5%	1/10W
R1844	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1845	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1846	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1847	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1848	1-216-049-00	RES-CHIP	1K	5%	1/10W
R1849	1-216-041-00	RES-CHIP	470	5%	1/10W
		<RELAY>			
RY1601	1-755-028-11	RELAY			
RY1602	1-755-028-11	RELAY			
		<TERMINAL BOARD>			
TB1601	1-694-303-11	TERMINAL, PUSH (CENTER SP IN)			
		<CRYSTAL>			
X1701	1-579-125-11	VIBRATOR, CERAMIC (8.0MHz)			
**********					
	* A-1642-288-A	E BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-682-952-09	SCREW +PSW 3X16			
		<CAPACITOR>			
C502	1-126-959-11	ELECT	0.47µF	20%	50V
C505	1-130-471-00	MYLAR	0.001µF	5%	50V
C506	1-126-933-11	ELECT	100µF	20%	16V
C507	1-126-965-91	ELECT	22µF	20%	50V
C508	1-102-228-00	CERAMIC	470pF	10%	500V
C509	1-106-383-00	MYLAR	0.047µF	10%	200V
C511	1-130-475-00	MYLAR	0.0022µF	5%	50V
C512	1-136-479-11	FILM	0.001µF	5%	50V
C513	1-126-965-91	ELECT	22µF	20%	50V
C514	⚠ 1-162-116-91	CERAMIC	680pF	10%	2KV
C515	⚠ 1-125-831-91	FILM	0.033µF	3%	630V
C516	⚠ 1-117-648-11	FILM	15000pF	3%	1.2KV
C518	1-130-495-00	MYLAR	0.1µF	5%	50V
C519	1-106-359-00	MYLAR	0.0047µF	10%	100V
C520	1-162-116-00	CERAMIC	680pF	10%	2KV
C521	1-162-116-00	CERAMIC	680pF	10%	2KV
C523	1-115-521-11	FILM	0.82µF	5%	250V
C524	1-106-359-00	MYLAR	0.0047µF	10%	100V
C526	1-102-228-00	CERAMIC	470pF	10%	500V
C527	1-126-970-11	ELECT	330µF	20%	50V
C528	1-107-957-11	ELECT	1µF	20%	250V
C529	1-109-844-11	FILM	0.68µF	5%	250V
C530	1-107-648-91	ELECT	100µF	20%	160V
C531	1-126-971-11	ELECT	470µF	20%	50V
C532	1-126-971-11	ELECT	470µF	20%	50V
C533	1-107-655-11	ELECT	47µF	20%	250V
C535	1-106-387-00	MYLAR	0.068µF	10%	200V
C536	1-137-374-11	MYLAR	0.047µF	5%	50V
C537	1-126-968-11	ELECT	100µF	20%	50V
C538	1-126-968-11	ELECT	100µF	20%	50V
C539	1-162-114-00	CERAMIC	0.0047µF		2KV
C540	1-137-372-11	MYLAR	0.022µF	5%	50V
C541	1-137-374-11	MYLAR	0.047µF	5%	50V
C542	1-126-934-11	ELECT	220µF	20%	16V
C548	1-102-244-00	CERAMIC	220pF	10%	500V
C550	1-126-935-11	ELECT	470µF	20%	16V
C551	1-126-935-11	ELECT	470µF	20%	16V
C554	1-130-062-91	FILM	0.0056µF	5%	630V
C555	1-126-960-11	ELECT	1µF	20%	50V
C556	1-130-495-00	MYLAR	0.1µF	5%	50V
C701	1-126-933-11	ELECT	100µF	20%	16V
C801	1-104-665-11	ELECT	100µF	20%	25V
C802	1-104-665-11	ELECT	100µF	20%	25V
C803	1-126-934-11	ELECT	220µF	20%	16V
C804	1-126-934-11	ELECT	220µF	20%	16V
C805	1-126-934-11	ELECT	220µF	20%	16V
C806	1-126-934-11	ELECT	220µF	20%	16V
C807	1-137-374-11	MYLAR	0.047µF	5%	50V
C808	1-137-374-11	MYLAR	0.047µF	5%	50V
C809	1-137-374-11	MYLAR	0.047µF	5%	50V
C810	1-137-374-11	MYLAR	0.047µF	5%	50V
C811	1-102-074-00	CERAMIC	0.001µF	10%	50V
C812	1-136-169-00	MYLAR	0.22µF	5%	50V
C813	1-137-374-11	MYLAR	0.047µF	5%	50V
C815	1-104-665-11	ELECT	100µF	20%	25V
C816	1-130-014-00	FILM	470pF	5%	50V
C817	1-104-664-11	ELECT	47µF	20%	25V
C818	1-126-933-11	ELECT	100µF	20%	16V
C819	1-104-664-11	ELECT	47µF	20%	25V
C820	1-102-129-00	CERAMIC	0.01µF	10%	50V
C821	1-130-495-00	MYLAR	0.1µF	5%	50V
C822	1-107-648-91	ELECT	100µF	20%	160V
C823	1-104-664-11	ELECT	47µF	20%	25V
C824	1-126-964-11	ELECT	10µF	20%	50V
C825	1-104-665-11	ELECT	100µF	20%	25V
C826	1-136-165-00	MYLAR	0.1µF	5%	50V
C827	1-126-964-11	ELECT	10µF	20%	50V
C828	1-102-824-00	CERAMIC	470pF	5%	50V
C829	1-126-959-11	ELECT	0.47µF	20%	50V
C830	1-102-824-00	CERAMIC	470pF	5%	50V
C831	1-126-960-11	ELECT	1µF	20%	50V
C832	1-126-960-11	ELECT	1µF	20%	50V
C833	1-126-960-11	ELECT	1µF	20%	50V
C834	1-126-968-11	ELECT	100µF	20%	50V
C835	1-126-967-11	ELECT	47µF	20%	50V
C836	1-136-169-00	MYLAR	0.22µF	5%	50V
C837	1-126-963-11	ELECT	4.7µF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C838	1-104-665-11	ELECT	100µF	20%	25V
C839	1-137-374-11	MYLAR	0.047µF	5%	50V
C840	1-104-665-11	ELECT	100µF	20%	25V
C841	1-137-374-11	MYLAR	0.047µF	5%	50V
C842	1-137-374-11	MYLAR	0.047µF	5%	50V
C843	1-104-664-11	ELECT	47µF	20%	25V
C844	1-126-933-11	ELECT	100µF	20%	16V
C845	1-126-933-11	ELECT	100µF	20%	16V
C846	1-126-933-11	ELECT	100µF	20%	16V
C847	1-126-933-11	ELECT	100µF	20%	16V
C848	1-126-933-11	ELECT	100µF	20%	16V
C849	1-102-973-00	CERAMIC	100pF	5%	50V
C850	1-102-973-00	CERAMIC	100pF	5%	50V
C851	1-137-374-11	MYLAR	0.047µF	5%	50V
C852	1-137-374-11	MYLAR	0.047µF	5%	50V
C853	1-137-374-11	MYLAR	0.047µF	5%	50V
C854	1-126-933-11	ELECT	100µF	20%	16V
C855	1-102-973-00	CERAMIC	100pF	5%	50V
C856	1-102-973-00	CERAMIC	100pF	5%	50V
C857	1-126-933-11	ELECT	100µF	20%	16V
C858	1-104-665-11	ELECT	100µF	20%	25V
C859	1-104-665-11	ELECT	100µF	20%	25V
C860	1-126-933-11	ELECT	100µF	20%	16V
C861	1-137-374-11	MYLAR	0.047µF	5%	50V
C862	1-137-374-11	MYLAR	0.047µF	5%	50V
C863	1-137-374-11	MYLAR	0.047µF	5%	50V
C864	1-126-933-11	ELECT	100µF	20%	16V
C865	1-137-366-11	MYLAR	0.0022µF	5%	50V
C866	1-136-177-00	MYLAR	1µF	5%	50V
C867	1-104-664-11	ELECT	47µF	20%	25V
C868	1-164-096-11	CERAMIC	0.01µF		50V
C869	1-130-487-00	MYLAR	0.022µF	5%	50V
C870	1-164-096-11	CERAMIC	0.01µF		50V
C872	1-126-960-11	ELECT	1µF	20%	50V
C873	1-126-964-11	ELECT	10µF	20%	50V
C874	1-104-664-11	ELECT	47µF	20%	25V
C875	1-164-096-11	CERAMIC	0.01µF		50V
C876	1-102-973-00	CERAMIC	100pF	5%	50V
C877	1-102-973-00	CERAMIC	100pF	5%	50V
C878	1-104-664-11	ELECT	47µF	20%	25V
C879	1-104-664-11	ELECT	47µF	20%	25V
C880	1-104-664-11	ELECT	47µF	20%	25V
C881	1-102-973-00	CERAMIC	100pF	5%	50V
C882	1-102-973-00	CERAMIC	100pF	5%	50V
C883	1-102-973-00	CERAMIC	100pF	5%	50V
C884	1-104-665-11	ELECT	100µF	20%	25V
C885	1-104-664-11	ELECT	47µF	20%	25V
C886	1-102-973-00	CERAMIC	100pF	5%	50V
C887	1-102-973-00	CERAMIC	100pF	5%	50V
C888	1-102-973-00	CERAMIC	100pF	5%	50V
C889	1-104-665-11	ELECT	100µF	20%	25V
C897	1-104-665-11	ELECT	100µF	20%	25V
C898	1-164-096-11	CERAMIC	0.01µF		50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN501	* 1-564-513-11	PLUG, CONNECTOR 10P	
CN502	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN503	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN505	* 1-506-371-00	PIN, CONNECTOR 2P	
CN506	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN507	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN508	1-695-915-11	TAB (CONTACT)	
CN651	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN652	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN801	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN802	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN803	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN804	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN805	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN806	* 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN807	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN808	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
CN810	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
		<DIODE>	
D501	8-719-991-33	DIODE 1SS133T-77	
D502	8-719-991-33	DIODE 1SS133T-77	
D503	8-719-991-33	DIODE 1SS133T-77	
D504	8-719-921-63	DIODE MTZJ-7.5B	
D507	8-719-302-43	DIODE EL1Z	
D508	8-719-900-26	DIODE ERD29-08J	
D509	8-719-945-80	DIODE ERC06-15S	
D510	8-719-991-33	DIODE 1SS133T-77	
D511	8-719-302-43	DIODE EL1Z	
D512	8-719-991-33	DIODE 1SS133T-77	
D513	8-719-302-43	DIODE EL1Z	
D514	8-719-908-03	DIODE GP08D	
D515	8-719-908-03	DIODE GP08D	
D517	8-719-018-82	DIODE RGP02-20EL-6394	
D519	8-719-991-33	DIODE 1SS133T-77	
D522	8-719-991-33	DIODE 1SS133T-77	
D523	8-719-991-33	DIODE 1SS133T-77	
D524	8-719-991-33	DIODE 1SS133T-77	
D527	8-719-109-85	DIODE RD5.1ESB2	
D560	8-719-991-33	DIODE 1SS133T-77	
D701	8-719-109-63	DIODE RD3.0ESB2	
D702	8-719-991-33	DIODE 1SS133T-77	
D820	8-719-109-68	DIODE RD3.6ESB1	
D829	8-719-109-84	DIODE RD5.1ESB1	
D835	8-719-109-89	DIODE RD5.6ESB2	
D840	8-719-991-33	DIODE 1SS133T-77	
D842	8-719-991-33	DIODE 1SS133T-77	
D845	8-719-991-33	DIODE 1SS133T-77	
D846	8-719-991-33	DIODE 1SS133T-77	
		<FERRITE BEAD>	
FB501	1-410-397-21	FERRITE 1.1µH	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC501	8-759-133-90	IC µPC339C	
IC801	8-759-327-51	IC PA0053B	
IC802	8-759-327-51	IC PA0053B	
IC803	8-759-183-37	IC CA0007AD	
IC804	8-759-464-79	IC PM0011AS	
IC805	8-759-711-28	IC NJM2058D	
IC806	8-759-464-79	IC PM0011AS	
IC807	8-759-700-69	IC NJM79L12A	
IC808	8-759-464-79	IC PM0011AS	
IC809	8-749-014-37	IC STK392-150	
IC810	8-749-014-37	IC STK392-150	
IC811	8-759-981-96	IC RC4560D	
IC812	8-759-701-56	IC NJM78M05FA	
IC813	8-759-701-65	IC NJM79M05FA	
IC814	8-759-595-88	IC AN77L12-TA	
		<COIL>	
L502	1-410-478-11	INDUCTOR 47µH	
L503	1-459-111-00	INDUCTOR 10mH	
L505	⚠ 1-416-637-11	COIL, HORIZONTAL LINEARITY	
L506	1-412-552-11	INDUCTOR 2.2mH	
L801	1-406-979-11	INDUCTOR 220µH	
L802	1-406-979-11	INDUCTOR 220µH	
L803	1-406-665-11	INDUCTOR 100µH	
		<NEON LAMP>	
NL501	1-519-108-99	LAMP, NEON	
		<IC LINK>	
PS601	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS602	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS603	⚠ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS604	⚠ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS605	⚠ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS606	⚠ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS607	⚠ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS608	⚠ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
		<TRANSISTOR>	
Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q502	8-729-044-29	TRANSISTOR 2SD2539 (LBSONY-1)	
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q504	8-729-046-80	TRANSISTOR 2SC4634LS-CB11	
Q505	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q506	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q507	8-729-032-61	TRANSISTOR 2SC5022-02	
Q701	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q702	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q801	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q803	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q805	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q807	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q808	8-729-030-02	TRANSISTOR DTC144ESA	
Q809	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q810	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q811	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q812	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		<RESISTOR>	
⧓R1	⚠	METAL 1% 1/4W	
R501	1-249-421-11	CARBON 2.2K 5% 1/4W	
R502	1-216-465-21	METAL OXIDE 27K 5% 2W	
R503	1-247-843-11	CARBON 3.3K 5% 1/4W	
R504	1-249-419-11	CARBON 1.5K 5% 1/4W	
R505	1-247-885-00	CARBON 180K 5% 1/4W	
R506	1-247-883-00	CARBON 150K 5% 1/4W	
R507	1-249-422-11	CARBON 2.7K 5% 1/4W	
R508	1-260-338-51	CARBON 6.8K 5% 1/2W	
R509	1-249-437-11	CARBON 47K 5% 1/4W	
R510	1-215-918-00	METAL OXIDE 1.5K 5% 3W	
R511	1-215-918-00	METAL OXIDE 1.5K 5% 3W	
R512	1-215-918-00	METAL OXIDE 1.5K 5% 3W	
R513	1-247-843-11	CARBON 3.3K 5% 1/4W	
R514	1-215-443-00	METAL 8.2K 1% 1/4W	
R516	1-215-467-00	METAL 82K 1% 1/4W	
R517	1-215-449-00	METAL 15K 1% 1/4W	
R518	1-249-436-11	CARBON 39K 5% 1/4W	
R519	1-249-429-11	CARBON 10K 5% 1/4W	
R522	1-249-428-11	CARBON 8.2K 5% 1/4W	
R523	1-249-437-11	CARBON 47K 5% 1/4W	
R524	1-249-425-11	CARBON 4.7K 5% 1/4W	
R525	1-249-405-11	CARBON 100 5% 1/4W	
R527	1-249-425-11	CARBON 4.7K 5% 1/4W	
R528	1-215-910-00	METAL OXIDE 68 5% 3W	
R529	1-215-449-00	METAL 15K 1% 1/4W	
R530	1-249-429-11	CARBON 10K 5% 1/4W	
R531	1-260-326-11	CARBON 680 5% 1/2W	
R532	1-260-315-71	CARBON 82 5% 1/2W	
R533	1-214-912-00	METAL 91K 1% 1/2W	
R534	1-215-479-00	METAL 270K 1% 1/4W	
R535	1-247-887-00	CARBON 220K 5% 1/4W	
R536	1-249-377-11	CARBON 0.47 5% 1/4W	
R537	1-260-336-11	CARBON 4.7K 5% 1/2W	
R538	1-249-425-11	CARBON 4.7K 5% 1/4W	
R539	1-249-377-11	CARBON 0.47 5% 1/4W	
R540	1-249-377-11	CARBON 0.47 5% 1/4W	
R541	1-247-807-31	CARBON 100 5% 1/4W	
R542	1-215-864-00	METAL OXIDE 150 5% 1W	
R543	1-216-349-00	METAL OXIDE 1 5% 1W	
R544	1-216-864-00	METAL OXIDE 150 5% 1W	
R545	1-249-377-11	CARBON 0.47 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R546	1-249-377-11	CARBON	0.47	5%	1/4W
R547	1-247-807-31	CARBON	100	5%	1/4W
R548	1-249-413-11	CARBON	470	5%	1/4W
R549	1-249-431-11	CARBON	15K	5%	1/4W
R550	1-247-807-31	CARBON	100	5%	1/4W
R551	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-247-807-31	CARBON	100	5%	1/4W
R553	1-247-881-00	CARBON	120K	5%	1/4W
R554	1-249-405-11	CARBON	100	5%	1/4W
R555	1-247-807-31	CARBON	100	5%	1/4W
R556	1-260-328-11	CARBON	1K	5%	1/2W
R557	1-216-490-11	METAL OXIDE	39K	5%	3W
R558	1-216-490-11	METAL OXIDE	39K	5%	3W
R559	1-216-490-11	METAL OXIDE	39K	5%	3W
R562	1-202-838-00	SOLID	100K	10%	1/2W
R563	1-215-447-00	METAL	12K	1%	1/4W
R565	1-247-807-31	CARBON	100	5%	1/4W
R567	1-216-390-11	METAL OXIDE	1.2	5%	3W
R568	1-247-903-00	CARBON	1M	5%	1/4W
R569	1-216-390-11	METAL OXIDE	1.2	5%	3W
R570	1-215-910-00	METAL OXIDE	68	5%	3W
R571	1-249-422-11	CARBON	2.7K	5%	1/4W
R572	1-247-895-91	CARBON	470K	5%	1/4W
R573	1-249-438-11	CARBON	56K	5%	1/4W
R574	1-249-435-11	CARBON	33K	5%	1/4W
R576	1-247-807-31	CARBON	100	5%	1/4W
R577	1-249-422-11	CARBON	2.7K	5%	1/4W
R578	1-215-473-00	METAL	150K	1%	1/4W
R579	1-247-889-00	CARBON	270K	5%	1/4W
R580	1-249-437-11	CARBON	47K	5%	1/4W
R581	1-249-437-11	CARBON	47K	5%	1/4W
R583	1-249-428-11	CARBON	8.2K	5%	1/4W
R584	1-249-429-11	CARBON	10K	5%	1/4W
R585	1-216-490-11	METAL OXIDE	39K	5%	3W
R586	1-215-892-11	METAL OXIDE	1K	5%	2W
R588	1-249-433-11	CARBON	22K	5%	1/4W
R589	1-247-887-00	CARBON	220K	5%	1/4W
R591	1-249-425-11	CARBON	4.7K	5%	1/4W
R595	1-215-464-00	METAL	62K	1%	1/4W
R596	1-215-473-00	METAL	150K	1%	1/4W
R597	1-215-464-00	METAL	62K	1%	1/4W
R701	1-215-449-00	METAL	15K	1%	1/4W
R702	1-249-421-11	CARBON	2.2K	5%	1/4W
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-215-457-00	METAL	33K	1%	1/4W
R705	1-215-457-00	METAL	33K	1%	1/4W
R706	1-215-457-00	METAL	33K	1%	1/4W
R801	1-247-807-31	CARBON	100	5%	1/4W
R802	1-247-807-31	CARBON	100	5%	1/4W
R803	1-249-430-11	CARBON	12K	5%	1/4W
R804	1-249-425-11	CARBON	4.7K	5%	1/4W
R805	1-247-807-31	CARBON	100	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W
R807	1-247-807-31	CARBON	100	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-425-11	CARBON	4.7K	5%	1/4W
R810	1-247-807-31	CARBON	100	5%	1/4W
R811	1-247-807-31	CARBON	100	5%	1/4W
R813	1-249-433-11	CARBON	22K	5%	1/4W
R814	1-247-807-31	CARBON	100	5%	1/4W
R815	1-247-807-31	CARBON	100	5%	1/4W
R816	1-247-807-31	CARBON	100	5%	1/4W
R817	1-247-807-31	CARBON	100	5%	1/4W
R818	1-249-429-11	CARBON	10K	5%	1/4W
R819	1-247-807-31	CARBON	100	5%	1/4W
R820	1-249-437-11	CARBON	47K	5%	1/4W
R821	1-249-431-11	CARBON	15K	5%	1/4W
R822	1-249-417-11	CARBON	1K	5%	1/4W
R823	1-249-417-11	CARBON	1K	5%	1/4W
R824	1-215-462-00	METAL	51K	1%	1/4W
R825	1-249-441-11	CARBON	100K	5%	1/4W
R826	1-215-462-00	METAL	51K	1%	1/4W
R827	1-216-474-11	METAL OXIDE	82	5%	3W
R828	1-249-426-11	CARBON	5.6K	5%	1/4W
R829	1-249-426-11	CARBON	5.6K	5%	1/4W
R830	1-249-414-11	CARBON	560	5%	1/4W
R831	1-249-414-11	CARBON	560	5%	1/4W
R832	1-249-441-11	CARBON	100K	5%	1/4W
R833	1-216-474-11	METAL OXIDE	82	5%	3W
R834	1-249-441-11	CARBON	100K	5%	1/4W
R835	1-249-441-11	CARBON	100K	5%	1/4W
R836	1-247-807-31	CARBON	100	5%	1/4W
R837	1-249-441-11	CARBON	100K	5%	1/4W
R838	1-249-421-11	CARBON	2.2K	5%	1/4W
R839	1-247-807-31	CARBON	100	5%	1/4W
R841	1-249-409-11	CARBON	220	5%	1/4W
R842	1-247-807-31	CARBON	100	5%	1/4W
R843	1-247-807-31	CARBON	100	5%	1/4W
R844	1-247-807-31	CARBON	100	5%	1/4W
R845	1-249-441-11	CARBON	100K	5%	1/4W
R846	1-247-807-31	CARBON	100	5%	1/4W
R847	1-215-481-00	METAL	330K	1%	1/4W
R848	1-215-449-00	METAL	15K	1%	1/4W
R850	1-215-481-00	METAL	330K	1%	1/4W
R851	1-247-807-31	CARBON	100	5%	1/4W
R852	1-247-807-31	CARBON	100	5%	1/4W
R853	1-247-887-00	CARBON	220K	5%	1/4W
R854	1-249-429-11	CARBON	10K	5%	1/4W
R856	1-247-807-31	CARBON	100	5%	1/4W
R857	1-247-807-31	CARBON	100	5%	1/4W
R858	1-215-455-00	METAL	27K	1%	1/4W
R859	1-215-455-00	METAL	27K	1%	1/4W
R860	1-215-455-00	METAL	27K	1%	1/4W
R861	1-215-455-00	METAL	27K	1%	1/4W
R862	1-215-455-00	METAL	27K	1%	1/4W
R863	1-215-455-00	METAL	27K	1%	1/4W
R865	1-249-424-11	CARBON	3.9K	5%	1/4W
R866	1-249-437-11	CARBON	47K	5%	1/4W
R867	1-215-455-00	METAL	27K	1%	1/4W
R868	1-215-443-00	METAL	8.2K	1%	1/4W
R869	1-249-425-11	CARBON	4.7K	5%	1/4W
R870	1-249-437-11	CARBON	47K	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R871	1-249-417-11	CARBON	1K	5%	1/4W
R872	1-249-425-11	CARBON	4.7K	5%	1/4W
R873	1-247-807-31	CARBON	100	5%	1/4W
R874	1-249-435-11	CARBON	33K	5%	1/4W
R875	1-249-441-11	CARBON	100K	5%	1/4W
R877	1-249-422-11	CARBON	2.7K	5%	1/4W
R878	1-215-469-00	METAL	100K	1%	1/4W
R879	1-215-445-00	METAL	10K	1%	1/4W
R881	1-249-408-11	CARBON	180	5%	1/4W
R882	1-249-429-11	CARBON	10K	5%	1/4W
R883	1-249-429-11	CARBON	10K	5%	1/4W
R884	1-215-445-00	METAL	10K	1%	1/4W
R885	1-249-441-11	CARBON	100K	5%	1/4W
R886	1-249-428-11	CARBON	8.2K	5%	1/4W
R887	1-247-807-31	CARBON	100	5%	1/4W
R888	1-247-807-31	CARBON	100	5%	1/4W
R889	1-249-439-11	CARBON	68K	5%	1/4W
R890	1-249-441-11	CARBON	100K	5%	1/4W
R891	1-247-843-11	CARBON	3.3K	5%	1/4W
R892	1-249-425-11	CARBON	4.7K	5%	1/4W
R893	1-249-421-11	CARBON	2.2K	5%	1/4W
R894	1-215-455-00	METAL	27K	1%	1/4W
R895	1-249-421-11	CARBON	2.2K	5%	1/4W
R896	1-249-441-11	CARBON	100K	5%	1/4W
R897	1-247-807-31	CARBON	100	5%	1/4W
R898	1-249-409-11	CARBON	220	5%	1/4W
R900	1-216-474-11	METAL OXIDE	82	5%	3W
R901	1-215-449-00	METAL	15K	1%	1/4W
R902	1-215-449-00	METAL	15K	1%	1/4W
R903	1-215-421-00	METAL	1K	1%	1/4W
R904	1-214-800-11	METAL	2.2	1%	1/2W
R905	1-214-800-11	METAL	2.2	1%	1/2W
R906	1-214-800-11	METAL	2.2	1%	1/2W
R908	1-215-445-00	METAL	10K	1%	1/4W
R909	1-215-421-00	METAL	1K	1%	1/4W
R910	1-215-421-00	METAL	1K	1%	1/4W
R911	1-215-461-00	METAL	47K	1%	1/4W
R912	1-215-445-00	METAL	10K	1%	1/4W
R913	1-215-455-00	METAL	27K	1%	1/4W
R914	1-215-455-00	METAL	27K	1%	1/4W
R915	1-215-455-00	METAL	27K	1%	1/4W
R916	1-215-455-00	METAL	27K	1%	1/4W
R917	1-215-455-00	METAL	27K	1%	1/4W
R918	1-215-455-00	METAL	27K	1%	1/4W
R919	1-249-435-11	CARBON	33K	5%	1/4W
R920	1-214-800-11	METAL	2.2	1%	1/2W
R921	1-249-429-11	CARBON	10K	5%	1/4W
R922	1-215-445-00	METAL	10K	1%	1/4W
R923	1-249-425-11	CARBON	4.7K	5%	1/4W
R924	1-215-445-00	METAL	10K	1%	1/4W
R925	1-249-425-11	CARBON	4.7K	5%	1/4W
R926	1-249-408-11	CARBON	180	5%	1/4W
R927	1-249-429-11	CARBON	10K	5%	1/4W
R928	1-249-429-11	CARBON	10K	5%	1/4W
R929	1-214-800-11	METAL	2.2	1%	1/2W
R930	1-214-800-11	METAL	2.2	1%	1/2W
R931	1-215-445-00	METAL	10K	1%	1/4W
R933	1-215-445-00	METAL	10K	1%	1/4W
R934	1-249-422-11	CARBON	2.7K	5%	1/4W
R935	1-249-429-11	CARBON	10K	5%	1/4W
R936	1-249-429-11	CARBON	10K	5%	1/4W
R937	1-249-436-11	CARBON	39K	5%	1/4W
R938	1-215-421-00	METAL	1K	1%	1/4W
R939	1-259-878-11	CARBON	1.5M	5%	1/4W
R940	1-249-441-11	CARBON	100K	5%	1/4W
R941	1-249-441-11	CARBON	100K	5%	1/4W
R942	1-249-421-11	CARBON	2.2K	5%	1/4W
R943	1-249-441-11	CARBON	100K	5%	1/4W
R944	1-215-421-00	METAL	1K	1%	1/4W
R945	1-249-439-11	CARBON	68K	5%	1/4W
R946	1-215-421-00	METAL	1K	1%	1/4W
R947	1-249-441-11	CARBON	100K	5%	1/4W
R948	1-249-409-11	CARBON	220	5%	1/4W
R949	1-247-807-31	CARBON	100	5%	1/4W
R950	1-247-807-31	CARBON	100	5%	1/4W
R951	1-247-807-31	CARBON	100	5%	1/4W
R952	1-247-807-31	CARBON	100	5%	1/4W
R953	1-249-435-11	CARBON	33K	5%	1/4W
R954	1-215-433-00	METAL	3.3K	1%	1/4W
R955	1-215-433-00	METAL	3.3K	1%	1/4W
R956	1-249-429-11	CARBON	10K	5%	1/4W
R957	1-214-800-11	METAL	2.2	1%	1/2W
R958	1-214-800-11	METAL	2.2	1%	1/2W
R959	1-215-433-00	METAL	3.3K	1%	1/4W
R961	1-249-425-11	CARBON	4.7K	5%	1/4W
R962	1-214-800-11	METAL	2.2	1%	1/2W
R963	1-214-800-11	METAL	2.2	1%	1/2W
R964	1-215-433-00	METAL	3.3K	1%	1/4W
R965	1-215-433-00	METAL	3.3K	1%	1/4W
R966	1-249-409-11	CARBON	220	5%	1/4W
R967	1-215-455-00	METAL	27K	1%	1/4W
R968	1-215-455-00	METAL	27K	1%	1/4W
R969	1-215-455-00	METAL	27K	1%	1/4W
R970	1-215-455-00	METAL	27K	1%	1/4W
R971	1-215-455-00	METAL	27K	1%	1/4W
R972	1-215-455-00	METAL	27K	1%	1/4W
R973	1-214-800-11	METAL	2.2	1%	1/2W
R974	1-215-455-00	METAL	27K	1%	1/4W
R975	1-214-800-11	METAL	2.2	1%	1/2W
R976	1-215-433-00	METAL	3.3K	1%	1/4W
R978	1-215-443-00	METAL	8.2K	1%	1/4W
R979	1-249-425-11	CARBON	4.7K	5%	1/4W
R980	1-249-409-11	CARBON	220	5%	1/4W
R981	1-249-409-11	CARBON	220	5%	1/4W
R982	1-215-469-00	METAL	100K	1%	1/4W
R983	1-249-409-11	CARBON	220	5%	1/4W
R984	1-215-445-00	METAL	10K	1%	1/4W
R985	1-249-429-11	CARBON	10K	5%	1/4W
R986	1-215-449-00	METAL	15K	1%	1/4W
R987	1-249-408-11	CARBON	180	5%	1/4W
R988	1-249-429-11	CARBON	10K	5%	1/4W
R989	1-249-425-11	CARBON	4.7K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R990	1-249-431-11	CARBON	15K	5%	1/4W
R991	1-249-429-11	CARBON	10K	5%	1/4W
R993	1-249-425-11	CARBON	4.7K	5%	1/4W
R994	1-216-474-11	METAL OXIDE	82	5%	3W
R997	1-215-445-00	METAL	10K	1%	1/4W
R998	1-249-425-11	CARBON	4.7K	5%	1/4W
R999	1-249-425-11	CARBON	4.7K	5%	1/4W
R1901	1-249-439-11	CARBON	68K	5%	1/4W
R1904	1-249-425-11	CARBON	4.7K	5%	1/4W
		<SPARK GAP>			
SG501	1-519-422-11	GAP, SPARK			
		<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE			
T502 ⚠	1-431-211-11	TRANSFORMER, FERRITE (PMT)			
T504 ⚠	1-453-331-21	TRANSFORMER ASSY, FLYBACK			(NX-4010//M3P4)
**********					
*	A-1646-237-A	H1 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C3001	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3002	1-102-074-00	CERAMIC	0.001µF	10%	50V
C3004	1-126-933-11	ELECT	100µF	20%	16V
C3005	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
		<CONNECTOR>			
CN3001 *	1-564-525-11	PLUG, CONNECTOR 10P			
CN3002 *	1-564-518-11	PLUG, CONNECTOR 3P			
CN3003 *	1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P			
CN3004 *	1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P			
		<DIODE>			
D3001	8-719-109-89	DIODE RD5.6ESB2			
D3003	8-719-109-89	DIODE RD5.6ESB2			
D3008	8-719-302-45	DIODE SEL1210S-D (STANDBY)			
		<IC>			
IC3002	8-742-180-30	HYB IC SBX3081-51(30)			
		<TRANSISTOR>			
Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
R3001	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3002	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3003	1-216-041-00	RES-CHIP	470	5%	1/10W
R3004	1-216-033-00	RES-CHIP	220	5%	1/10W
R3006	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R3007	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R3010	1-216-045-00	RES-CHIP	680	5%	1/10W
		<SWITCH>			
S3001	1-692-431-21	SWITCH, TACTIL (PROG –)			
S3002	1-692-431-21	SWITCH, TACTIL (PROG +)			
S3003	1-692-431-21	SWITCH, TACTIL (VOL +)			
S3004	1-692-431-21	SWITCH, TACTIL (VOL –)			
S3005	1-692-431-21	SWITCH, TACTIL (TV/VIDEO)			
S3006 ⚠	1-571-433-21	SWITCH, PUSH (POWER)			
**********					
*	A-1646-238-A	H2 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C3204	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C3205	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C3214	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C3217	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
		<CONNECTOR>			
CN3201 *	1-564-518-11	PLUG, CONNECTOR 3P			
CN3202 *	1-564-526-31	PLUG, CONNECTOR 11P			
CN3204 *	1-564-520-11	PLUG, CONNECTOR 5P			
CN3213	1-694-564-11	TERMINAL BLOCK, S (AV4 IN)			
		<DIODE>			
D3215	8-719-109-97	DIODE RD6.8ES-B2			
D3216	8-719-109-97	DIODE RD6.8ES-B2			
		<JACK>			
J3202	1-507-806-00	JACK 1P (HEAD PHONE)			
		<CHIP CONDUCTOR>			
JR3201	1-216-864-11	SHORT	0		
JR3202	1-216-864-11	SHORT	0		
JR3203	1-216-864-11	SHORT	0		
JR3204	1-216-864-11	SHORT	0		
		<COIL>			
L3201	1-408-615-31	INDUCTOR	100µH		
L3202	1-408-615-31	INDUCTOR	100µH		
L3203	1-408-399-00	INDUCTOR	1.5µH		

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R3207	1-208-785-11	METAL CHIP	1.3K	0.5%	1/10W
R3209	1-216-033-00	RES-CHIP	220	5%	1/10W
R3210	1-216-033-00	RES-CHIP	220	5%	1/10W
R3211	1-216-033-00	RES-CHIP	220	5%	1/10W
R3212	1-216-033-00	RES-CHIP	220	5%	1/10W
R3214	1-216-025-11	RES-CHIP	100	5%	1/10W
R3212	1-216-025-11	RES-CHIP	100	5%	1/10W
		<SWITCH>			
S3205	1-692-431-21	SWITCH, TACTIL (AUTO CONVER)			
S3206	1-692-431-21	SWITCH, TACTIL (AUTO TUNE)			
**********					
		* A-1648-033-A U BOARD, COMPLETE (41PX1/41PX1K)			
		**********			
		<CAPACITOR>			
C4901	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4902	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C4903	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4904	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
		<CONNECTOR>			
CN4901 *	1-564-522-11	PLUG, CONNECTOR 7P			
CN4902 *	1-564-523-11	PLUG, CONNECTOR 8P			
		<DIODE>			
D4906	8-719-069-60	DIODE UDZSTE-179.1B			
D4907	8-719-069-60	DIODE UDZSTE-179.1B			
D4908	8-719-069-60	DIODE UDZSTE-179.1B			
		<JACK>			
J4901	1-695-549-11	SOCKET, PIN 21P (AV3 IN/OUT)			
		<COIL>			
L4900	1-412-002-31	INDUCTOR	4.7µH		
L4901	1-412-002-31	INDUCTOR	4.7µH		
L4902	1-412-002-31	INDUCTOR	4.7µH		
L4903	1-412-002-31	INDUCTOR	4.7µH		
		<RESISTOR>			
R4901	1-216-043-91	RES-CHIP	560	5%	1/10W
R4903	1-216-043-91	RES-CHIP	560	5%	1/10W
R4907	1-216-043-91	RES-CHIP	560	5%	1/10W
R4910	1-216-295-91	SHORT	0		
R4912	1-216-295-91	SHORT	0		
R4913	1-216-295-91	SHORT	0		
R4915	1-216-043-91	RES-CHIP	560	5%	1/10W
**********					
		* A-1648-034-A UE BOARD, COMPLETE (41PXIR)			
		**********			
		<CAPACITOR>			
C2701	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C2702	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C2703	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C2704	1-164-232-11	CERAMIC CHIP	0.01µF	10%	50V
C2705	1-126-934-11	ELECT	220µF	20%	16V
C2706	1-126-964-11	ELECT	10µF	20%	50V
C2707	1-126-964-11	ELECT	10µF	20%	50V
C2708	1-126-947-11	ELECT	47µF	20%	16V
C2709	1-126-964-11	ELECT	10µF	20%	50V
C2710	1-126-947-11	ELECT	47µF	20%	16V
		<CONNECTOR>			
CN2701 *	1-564-522-11	PLUG, CONNECTOR 7P			
CN2702 *	1-564-523-11	PLUG, CONNECTOR 8P			
CN2703	1-695-549-11	SOCKET, PIN 21P			
		<DIODE>			
D2701	8-719-069-60	DIODE UDZSTE-179.1B			
D2702	8-719-069-60	DIODE UDZSTE-179.1B			
D2703	8-719-069-60	DIODE UDZSTE-179.1B			
D2704	8-719-069-60	DIODE UDZSTE-179.1B			
D2705	8-719-069-60	DIODE UDZSTE-179.1B			
D2706	8-719-069-60	DIODE UDZSTE-179.1B			
D2707	8-719-069-60	DIODE UDZSTE-179.1B			
D2708	8-719-069-60	DIODE UDZSTE-179.1B			
		<RESISTOR>			
R2702	1-216-022-00	RES,CHIP	75	5%	1/10W
R2703	1-216-033-00	RES,CHIP	220	5%	1/10W
R2704	1-216-039-00	RES,CHIP	390	5%	1/10W
R2705	1-216-039-00	RES,CHIP	390	5%	1/10W
R2706	1-216-024-00	RES,CHIP	91	5%	1/10W
R2707	1-216-023-00	RES,CHIP	82	5%	1/10W
R2709	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2710	1-216-089-00	RES,CHIP	47K	5%	1/10W
R2711	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2712	1-216-089-00	RES,CHIP	47K	5%	1/10W
R2715	1-216-025-11	RES,CHIP	100	5%	1/10W
R2716	1-216-295-91	SHORT	0		
R2717	1-216-025-11	RES,CHIP	100	5%	1/10W
R2718	1-216-295-91	SHORT	0		
**********					

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1652-078-A	ZG BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C1431	1-102-508-91	CERAMIC	10pF	0.5pF	50V
C1432	1-126-935-11	ELECT	470µF	20%	16V
C1433	1-107-364-11	MYLAR	0.01µF	10%	200V
C1434	1-107-364-11	MYLAR	0.01µF	10%	200V
C1435	1-107-667-11	ELECT	2.2µF	20%	160V
C1436	1-130-471-00	MYLAR	0.001µF	5%	50V
C1437	1-130-471-00	MYLAR	0.001µF	5%	50V
C1438	1-107-364-11	MYLAR	0.01µF	10%	200V
C1439	1-161-830-00	CERAMIC	0.0047µF		500V
C1440	1-104-664-11	ELECT	47µF	20%	25V
C1441	1-137-380-11	MYLAR	0.47µF	5%	50V
C1443	1-126-935-11	ELECT	470µF	20%	16V
C1444	1-107-648-91	ELECT	100µF	20%	160V
C1445	1-126-935-11	ELECT	470µF	20%	16V
C1446	1-126-935-11	ELECT	470µF	20%	16V
		<CONNECTOR>			
CN1431 *	1-564-508-11	PLUG, CONNECTOR 5P			
CN1432 *	1-564-510-11	PLUG, CONNECTOR 7P			
CN1433 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN1434 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN1461 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN1462 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN1463	1-564-505-31	PLUG, CONNECTOR 2P			
CN1464 *	1-564-507-11	PLUG, CONNECTOR 4P			
		<DIODE>			
D1431	8-719-924-11	DIODE MTZJ-T-77-22			
D1432	8-719-924-11	DIODE MTZJ-T-77-22			
D1433	8-719-991-33	DIODE 1SS133T-77			
D1434	8-719-991-33	DIODE 1SS133T-77			
D1435	8-719-991-33	DIODE 1SS133T-77			
D1436	8-719-991-33	DIODE 1SS133T-77			
D1437	8-719-991-33	DIODE 1SS133T-77			
		<CONNECTOR>			
DY1431⚠	1-451-517-31	DEFLECTION YOKE (G)			
		<COIL>			
L1431	1-410-478-11	INDUCTOR	47µH		
		<TRANSISTOR>			
Q1431	8-729-044-61	TRANSISTOR 2SC4793 (LBS2SONY)			
Q1432	8-729-044-59	TRANSISTOR 2SA1837 (LBS2SONY)			
Q1433	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q1434	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q1435	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q1436	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q1437	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q1438	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R1431	1-249-414-11	CARBON	560	5%	1/4W
R1432	1-249-414-11	CARBON	560	5%	1/4W
R1433	1-249-377-11	CARBON	0.47	5%	1/4W
R1434	1-215-916-00	METAL OXIDE	680	5%	3W
R1435	1-216-475-11	METAL OXIDE	120	5%	3W
R1436	1-216-475-11	METAL OXIDE	120	5%	3W
R1437	1-249-415-11	CARBON	680	5%	1/4W
R1438	1-215-451-00	METAL	18K	1%	1/4W
R1439	1-215-451-00	METAL	18K	1%	1/4W
R1440	1-249-415-11	CARBON	680	5%	1/4W
R1442	1-247-807-31	CARBON	100	5%	1/4W
R1443	1-249-377-11	CARBON	0.47	5%	1/4W
R1444	1-247-807-31	CARBON	100	5%	1/4W
R1445	1-125-417-00	CARBON	680	5%	1/4W
R1446	1-249-401-11	CARBON	47	5%	1/4W
R1447	1-249-401-11	CARBON	47	5%	1/4W
R1448	1-249-417-11	CARBON	1K	5%	1/4W
R1449	1-215-389-00	METAL	47	1%	1/4W
R1450	1-249-425-11	CARBON	4.7K	5%	1/4W
R1451	1-249-409-11	CARBON	220	5%	1/4W
R1452	1-249-413-11	CARBON	470	5%	1/4W
R1454	1-260-310-51	CARBON	33	5%	1/2W
R1455	1-249-383-11	CARBON	1.5	5%	1/4W
R1457	1-249-417-11	CARBON	1K	5%	1/4W
R1458	1-249-383-11	CARBON	1.5	5%	1/4W
R1459	1-249-399-11	CARBON	33	5%	1/4W
R1460	1-215-916-00	METAL OXIDE	680	5%	3W
R1461	1-249-414-11	CARBON	560	5%	1/4W
R1462	1-249-414-11	CARBON	560	5%	1/4W
R1463	1-249-429-11	CARBON	10K	5%	1/4W
R1465	1-216-475-11	METAL OXIDE	120	5%	3W
R1468	1-216-475-11	METAL OXIDE	120	5%	3W
	* A-1652-079-A	ZR BOARD, COMPLETE			
		**********			
		<CONNECTOR>			
CN1401 *	1-564-510-11	PLUG, CONNECTOR 7P			
CN1403 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN1404 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN1405 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
		<CONNECTOR>			
DY1401⚠	1-451-517-31	DEFLECTION YOKE (R)			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R1401	1-249-414-11	CARBON	560	5%	1/4W
R1402	1-249-414-11	CARBON	560	5%	1/4W
R1403	1-215-916-00	METAL OXIDE	680	5%	3W
R1415	1-216-475-11	METAL OXIDE	120	5%	3W
R1418	1-216-475-11	METAL OXIDE	120	5%	3W
		MISCELLANEOUS			
	⚠ 1-223-925-71	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)			
	⚠ 1-451-517-21	DEFLECTION YOKE			
	⚠ 1-451-517-31	DEFLECTION YOKE			
	⚠ 1-452-790-31	NECK ASSY			
	⚠ 1-452-790-41	NECK ASSY			
	1-505-426-11	SPEAKER (10.6 CM)			
	1-528-864-12	BATTERY, SOLAR			
	1-543-653-21	CORE ASSY, BEAD (DIVISION TYPE)			
	⚠ 1-765-286-11	CORD, POWER			
	⚠ 8-598-955-13	BLOCK ASSY, HIGH-VOLTAGE			
	⚠ A-1501-213-A	MECHASEAL ASSY (R), SLANT			
	⚠ A-1501-214-A	MECHASEAL ASSY (G), SLANT			
	⚠ A-1501-215-A	MECHASEAL ASSY (B), SLANT			
		ACCESSORIES & PACKING MATERIALS			
	* 4-029-168-01	BAG, PROTECTION			
	* 4-030-895-01	JOINT			
	* 4-041-423-11	SHEET, PROTECTION			
	* 4-065-646-01	CUSHION (UPPER) (ASSY)			
	* 4-065-730-01	TRAY			
	* 4-072-998-01	INDIVIDUAL CARTON			
	* 4-206-026-01	CUSHION, LOWER			
	4-026-027-11	MANUAL, INSTRUCTION (41PX1)			
	4-026-027-21	MANUAL, INSTRUCTION (41PX1R)			
	4-026-027-31	MANUAL, INSTRUCTION (41PX1K)			
		REMOTE COMMANDER			
	1-418-572-11	REMOTE COMMANDER (RM-892)			
	1-473-692-11	REMOTE COMMANDER (RM-862)			

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